

## Data Validation Checklist

### Semivolatile Organic Analyses

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA<sup>1</sup>  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Karen Marie Trujillo  
 Concurrence<sup>2</sup>: Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-85860-1  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Samples Collected: 12/13/2012  
 Date: 01/29/2013  
 Date: 03/01/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met ( $\leq$ 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; $\leq$ 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?	✓			Method Blank MB 660-132918/1-A <sup>3</sup> : Phenanthrene @ 3.91 J µg/Kg (RL 7.9, MDL 3.8)	
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate	

<sup>1</sup> Except 680-85860-62, all samples were analyzed by TestAmerica of Tampa, FL. Sample 680-85860-62 analysis was conducted by TestAmerica Savannah, GA.

<sup>2</sup> Independent technical reviewer

<sup>3</sup> Associated samples, all except 680-85860-62

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
				blank 121112-RB-Shovel (680-85731-47).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (121112-RB-Shovel) was collected during the week of 12/10/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85731-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)	✓			Blank Contamination Action Level (BCAL) <sup>3</sup> : 19.55 µg/Kg (3.91 x 5). Sample-specific BCALs were developed by multiplying the BCAL by sample dilution factors and dividing by percent solids. Detected sample results were significantly greater than that observed in the method blank; therefore, qualification of the data due to the presence of blank contamination is not required.	
14. Is a field duplicate associated with this Job?	✓				
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.  The laboratory was notified that the Form Vs included in the data package of 12/28/2012 were incomplete and contained transcription errors. Revised Form Vs were provided by the laboratory on 02/14/2013 (refer to <b>Attachment B</b> ).	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>• Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>• An initial calibration is to be associated with each sample analysis.</li> </ul>	✓			<ul style="list-style-type: none"> <li>• Instrument ID: MSK</li> <li>• Initial Calibration: 12/14/2012</li> <li>• ICV: 12/14/2012 @ 10:58 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment B</b>)</li> <li>• CCV: 12/21/12 @ 09:04</li> <li>• Instrument ID: MSY</li> <li>• Initial Calibration: 12/21/2012</li> </ul>	

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
<ul style="list-style-type: none"> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>				<ul style="list-style-type: none"> <li>• ICV: 12/21/2012 @ 13:52 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment B</b>)</li> <li>• CCV: 12/27/12 @ 14:13</li> <li>• Instrument ID: BSMA5973</li> <li>• Initial Calibration: 11/26/2012</li> <li>• ICV: 11/26/12 @ 15:35</li> <li>• CCV: 12/21/12 @ 12:11 &amp; 12/22/12 @ 10:30</li> <li>• Instrument ID: BSMC5973</li> <li>• Initial Calibration: 11/29/2012</li> <li>• ICV: 11/29/12 @ 13:25</li> <li>• CCV: 12/27/12 @ 12:55</li> </ul>	
19. Were calibration results within laboratory/project specifications?	✓				
<ul style="list-style-type: none"> <li>• ICAL (Criteria: <math>\leq 15</math> mean %RSD with no individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):           <ul style="list-style-type: none"> <li>◦ If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>◦ If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> <li>• ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):           <ul style="list-style-type: none"> <li>◦ If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>◦ If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>					
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R $>$ Upper Control Limit (UCL) and J/R-flag results when %R $<$ Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> <li>Prep Batch 132744: 680-85860-5 (CV0256C-CS), MS/MSD</li> <li>Prep Batch 132918: 680-85929-6 (Batch sample), MS/MSD (Not listed in prep log; information obtained from prep logs included in other data packages). Lab sample 680-85929-6 is a project-specific sample (FM0266A-CS) that was selected by TestAmerica for the PAH MS and MSD analyses, and the results were reported under Job ID 680-85929-1</li> <li>Prep Batch 260355: 680-85881-1 (Batch sample), MS/MSD. Revised prep log provided by the laboratory on 1/16/2013, refer to <b>Attachment B</b>.</li> </ul>	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>	✓			<p>CV0256C-CS (680-85860-5):</p> <ul style="list-style-type: none"> <li>Acenaphthene @ 37 and 30%R (39-130). UJ ND</li> <li>Acenaphthylene @ 34 and 34%R (38-130). UJ ND</li> <li>Benzo[a]pyrene @38 and 36%R (49-130). J-Flag</li> <li>Benzo[g,h,i]perylene @47 and 30%R (32-130). Qualification of data is not warranted, because MS recovery met control limits.</li> <li>Chrysene 64 and 39%R (41-130). Qualification of data is not warranted, because MS recovery met control limits.</li> <li>Fluorene @45 and 34%R (40-130). Qualification of data is not warranted, because MS recovery met control limits.</li> <li>Indeno[1,2,3-cd]pyrene @ 38 and 29%R (30-130). Qualification of data is not warranted, because MS recovery met control limits.</li> <li>Naphthalene @40 and 33 %R (36-130). Qualification of data is not warranted, because MS recovery met control limits.</li> <li>Pyrene @ 46 and 40%R (44-130). Qualification of data is not warranted, because MS recovery met control limits</li> </ul>	J, UJ
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> </ul>	✓			<p>CV0256C-CS (680-85860-5):</p> <p>Benzo[g,h,i]perylene @42%RPD (<math>\leq</math>40). J-Flag</p> <p>Phenanthrene @41%RPD (<math>\leq</math>40). J-Flag</p>	J

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
<ul style="list-style-type: none"> <li>If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result</li> </ul>					
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li> <li>If 2 or more Acid or BN %R <math>\geq</math>10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>If 2 or more Acid or BN , with 1 %R &gt;UCL and 1 %R <math>\geq</math>10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> <li>If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li> <li>If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.</li> </ul>	✓				
29. Were lab comments included in report?	✓			Refer to <b>Attachment C</b> (Case Narrative)	

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
<p><b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (<b>Attachment D</b>). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.</p>					

**DV Flag Definitions:**

- J        The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R        The sample results are unusable. The analyte may or may not be present in the sample.
- U        The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ      The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

## Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85860-1	FM0199A-CS-SP	Solid	12/13/12 11:00	12/15/12 10:03
680-85860-2	FM0199B-CS-SP	Solid	12/13/12 10:46	12/15/12 10:03
680-85860-3	CV0256A-CS	Solid	12/13/12 09:39	12/15/12 10:03
680-85860-4	CV0256B-CS	Solid	12/13/12 09:43	12/15/12 10:03
680-85860-5	CV0256C-CS	Solid	12/13/12 09:45	12/15/12 10:03
680-85860-6	CV0256D-CS	Solid	12/13/12 09:48	12/15/12 10:03
680-85860-7	CV0256E-GS	Solid	12/13/12 09:50	12/15/12 10:03
680-85860-8	CV0061B-CS	Solid	12/13/12 09:01	12/15/12 10:03
680-85860-9	CV0511AC-GS	Solid	12/13/12 10:57	12/15/12 10:03
680-85860-10	CV0511FF-CS	Solid	12/13/12 08:50	12/15/12 10:03
680-85860-11	CV0511GG-CS	Solid	12/13/12 08:33	12/15/12 10:03
680-85860-12	CV0511HH-CS	Solid	12/13/12 08:55	12/15/12 10:03
680-85860-13	CV0511II-CS	Solid	12/13/12 08:55	12/15/12 10:03
680-85860-14	CV0511JJ-CS	Solid	12/13/12 09:10	12/15/12 10:03
680-85860-15	CV0511KK-CS	Solid	12/13/12 09:15	12/15/12 10:03
680-85860-16	CV0511LL-CS	Solid	12/13/12 09:20	12/15/12 10:03
680-85860-17	CV0511MM-CS	Solid	12/13/12 09:25	12/15/12 10:03
680-85860-18	CV0511NN-CS	Solid	12/13/12 09:30	12/15/12 10:03
680-85860-19	CV0511OO-CS	Solid	12/13/12 09:52	12/15/12 10:03
680-85860-20	CV0511PP-CS	Solid	12/13/12 09:55	12/15/12 10:03
680-85860-62	CV0511SSS-SW	Water	12/13/12 15:40	12/17/12 09:24

**ATTACHMENT B**  
**DATA PACKAGE ADDENDUM**

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab File ID: k11402t.d

DFTPP Injection Date: 12/14/2012

Instrument ID: MSK

DFTPP Injection Time: 07:59

Analysis Batch No.: 259918

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	11.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	12.8
70	Less than 2.0 % of mass 69	0.1 (1.0)1
127	10.0 - 80.0 % of mass 442	25.5
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	53.1
199	5.0 - 9.0 % of mass 198	3.8 (7.2)2
275	10.0 - 60.0 % of mass 442	14.5
365	Greater than 1.0 % of mass 442	2.4
441	Present but less than mass 443	0.0
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.2

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-259918/2	k11403q.d	12/14/2012	08:15
	IC 680-259918/3	k11404q.d	12/14/2012	08:39
	IC 680-259918/4	k11405q.d	12/14/2012	09:02
	IC 680-259918/5	k11406q.d	12/14/2012	09:25
	IC 680-259918/6	k11407q.d	12/14/2012	09:49
	IC 680-259918/7	k11408q.d	12/14/2012	10:12
	ICIS 680-259918/8	k11409q.d	12/14/2012	10:35
	ICV 680-259918/9	k11410q.d	12/14/2012	10:58

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-1  
SDG No.: 68085860-1  
Lab File ID: k12102t.d DFTPP Injection Date: 12/21/2012  
Instrument ID: MSK DFTPP Injection Time: 08:47  
Analysis Batch No.: 261200

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	14.8
68	Less than 2.0 % of mass 69	0.2 (1.0)1
69	Mass 69 relative abundance	15.5
70	Less than 2.0 % of mass 69	0.2 (1.3)1
127	10.0 - 80.0 % of mass 442	28.6
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	59.8
199	5.0 - 9.0 % of mass 198	4.1 (6.9)2
275	10.0 - 60.0 % of mass 442	17.0
365	Greater than 1.0 % of mass 442	2.1
441	Present but less than mass 443	16.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.1

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261200/2	k12103q.d	12/21/2012	09:04
	MB 680-260355/16-A	k12106.d	12/21/2012	10:16
	LCS 680-260355/17-A	k12109.d	12/21/2012	11:27

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-1  
SDG No.: 68085860-1  
Lab File ID: y12105t.d DFTPP Injection Date: 12/21/2012  
Instrument ID: MSY DFTPP Injection Time: 10:58  
Analysis Batch No.: 261214

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	19.5
68	Less than 2.0 % of mass 69	0.4 (2.0)1
69	Mass 69 relative abundance	20.6
70	Less than 2.0 % of mass 69	0.3 (1.3)1
127	10.0 - 80.0 % of mass 442	31.6
197	Less than 2.0 % of mass 198	0.8 (1.0)2
198	Greater than 50.0 % of mass 442	83.9
199	5.0 - 9.0 % of mass 198	5.3 (6.3)2
275	10.0 - 60.0 % of mass 442	22.2
365	Greater than 1.0 % of mass 442	3.0
441	Present but less than mass 443	14.4
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.6

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-261214/2	y12106q.d	12/21/2012	11:14
	IC 680-261214/3	y12107q.d	12/21/2012	11:37
	IC 680-261214/4	y12108q.d	12/21/2012	11:59
	IC 680-261214/5	y12109q.d	12/21/2012	12:22
	IC 680-261214/6	y12110q.d	12/21/2012	12:44
	IC 680-261214/7	y12111q.d	12/21/2012	13:07
	ICIS 680-261214/8	y12112q.d	12/21/2012	13:30
	ICV 680-261214/9	y12113q.d	12/21/2012	13:52

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-1  
SDG No.: 68085860-1  
Lab File ID: yl2701t.d DFTPP Injection Date: 12/27/2012  
Instrument ID: MSY DFTPP Injection Time: 13:57  
Analysis Batch No.: 261231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	29.5
68	Less than 2.0 % of mass 69	0.4 (1.3)1
69	Mass 69 relative abundance	32.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	46.8
197	Less than 2.0 % of mass 198	1.0 (0.9)2
198	Greater than 50.0 % of mass 442	109.6
199	5.0 - 9.0 % of mass 198	8.0 (7.3)2
275	10.0 - 60.0 % of mass 442	26.7
365	Greater than 1.0 % of mass 442	3.6
441	Present but less than mass 443	14.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	20.7

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261231/2	yl2702q.d	12/27/2012	14:13
CV0511SSS-SW	680-85860-62	yl270z.d	12/27/2012	15:31

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab File ID: 1AK26002.D DFTPP Injection Date: 11/26/2012

Instrument ID: BSMA5973 DFTPP Injection Time: 13:33

Analysis Batch No.: 131833

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	29.7
68	Less than 2.0 % of mass 69	0.6 (1.4)1
69	Mass 69 relative abundance	43.7
70	Less than 2.0 % of mass 69	0.8 (1.8)1
127	10.0 - 80.0 % of mass 198	44.2
197	Less than 2.0 % of mass 198	1.7
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	7.3
275	10.0 - 60.0 % of mass 198	32.0
365	Greater than 1.0 % of mass 198	4.9
441	Present but less than mass 443	16.2
442	Greater than 50.0 % of mass 198	131.6
443	15.0 - 24.0 % of mass 442	23.7 (18.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-131833/3	1AK26003.D	11/26/2012	13:48
	IC 660-131833/4	1AK26004.D	11/26/2012	14:04
	IC 660-131833/5	1AK26005.D	11/26/2012	14:19
	IC 660-131833/6	1AK26006.D	11/26/2012	14:34
	ICIS 660-131833/7	1AK26007.D	11/26/2012	14:50
	IC 660-131833/8	1AK26008.D	11/26/2012	15:05
	IC 660-131833/9	1AK26009.D	11/26/2012	15:20
	ICV 660-131833/10	1AK26010.D	11/26/2012	15:35

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab File ID: 1AL21003.D

DFTPP Injection Date: 12/21/2012

Instrument ID: BSMA5973

DFTPP Injection Time: 11:55

Analysis Batch No.: 132846

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	40.9
68	Less than 2.0 % of mass 69	0.8 (1.8)1
69	Mass 69 relative abundance	47.5
70	Less than 2.0 % of mass 69	0.6 (1.3)1
127	10.0 - 80.0 % of mass 198	41.1
197	Less than 2.0 % of mass 198	0.8
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.0
275	10.0 - 60.0 % of mass 198	28.2
365	Greater than 1.0 % of mass 198	4.2
441	Present but less than mass 443	13.7
442	Greater than 50.0 % of mass 198	114.0
443	15.0 - 24.0 % of mass 442	22.6 (19.8)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132846/4	1AL21004.D	12/21/2012	12:11
CV0511GG-CS	680-85860-11	1AL21044.D	12/21/2012	22:13
CV0511KK-CS	680-85860-15	1AL21046.D	12/21/2012	22:43
CV0511OO-CS	680-85860-19	1AL21049.D	12/21/2012	23:29

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab File ID: 1AL22002.D

DFTPP Injection Date: 12/22/2012

Instrument ID: BSMA5973

DFTPP Injection Time: 10:17

Analysis Batch No.: 132853

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	63.7
68	Less than 2.0 % of mass 69	1.0 (1.5)1
69	Mass 69 relative abundance	67.5
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 198	50.3
197	Less than 2.0 % of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	8.2
275	10.0 - 60.0 % of mass 198	27.1
365	Greater than 1.0 % of mass 198	4.9
441	Present but less than mass 443	12.0
442	Greater than 50.0 % of mass 198	88.0
443	15.0 - 24.0 % of mass 442	19.1 (21.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132853/3	1AL22003.D	12/22/2012	10:30
	MB 660-132744/1-A	1AL22005.D	12/22/2012	11:00
	LCS 660-132744/2-A	1AL22006.D	12/22/2012	11:15
FM0199A-CS-SP	680-85860-1	1AL22007.D	12/22/2012	11:30
FM0199B-CS-SP	680-85860-2	1AL22008.D	12/22/2012	11:45
CV0256A-CS	680-85860-3	1AL22009.D	12/22/2012	12:01
CV0256B-CS	680-85860-4	1AL22010.D	12/22/2012	12:16
CV0256C-CS	680-85860-5	1AL22011.D	12/22/2012	12:31
CV0256C-CS MS	680-85860-5 MS	1AL22012.D	12/22/2012	12:46
CV0256C-CS MSD	680-85860-5 MSD	1AL22013.D	12/22/2012	13:01
CV0256E-GS	680-85860-7	1AL22014.D	12/22/2012	13:16
CV0061B-CS	680-85860-8	1AL22015.D	12/22/2012	13:31
CV0511FF-CS	680-85860-10	1AL22016.D	12/22/2012	13:46
CV0511HH-CS	680-85860-12	1AL22017.D	12/22/2012	14:02
CV0511MM-CS	680-85860-17	1AL22018.D	12/22/2012	14:17
CV0511NN-CS	680-85860-18	1AL22019.D	12/22/2012	14:32
CV0511PP-CS	680-85860-20	1AL22020.D	12/22/2012	14:47

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85860-1  
SDG No.: 68085860-1  
Lab File ID: 1CK29002.D DFTPP Injection Date: 11/29/2012  
Instrument ID: BSMC5973 DFTPP Injection Time: 10:59  
Analysis Batch No.: 131957

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	27.7
68	Less than 2.0 % of mass 69	0.3 (0.7)1
69	Mass 69 relative abundance	37.9
70	Less than 2.0 % of mass 69	0.2 (0.6)1
127	10.0 - 80.0 % of mass 198	44.0
197	Less than 2.0 % of mass 198	1.2
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.8
275	10.0 - 60.0 % of mass 198	23.2
365	Greater than 1.0 % of mass 198	3.6
441	Present but less than mass 443	11.7
442	Greater than 50.0 % of mass 198	81.2
443	15.0 - 24.0 % of mass 442	16.8 (20.7)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 660-131957/3	1CK29003.D	11/29/2012	11:16
	IC 660-131957/4	1CK29004.D	11/29/2012	11:34
	IC 660-131957/5	1CK29005.D	11/29/2012	11:53
	IC 660-131957/6	1CK29006.D	11/29/2012	12:11
	ICIS 660-131957/7	1CK29007.D	11/29/2012	12:29
	IC 660-131957/8	1CK29008.D	11/29/2012	12:48
	IC 660-131957/9	1CK29009.D	11/29/2012	13:06
	ICV 660-131957/10	1CK29010.D	11/29/2012	13:25

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tampa Job No.: 680-85860-1  
SDG No.: 68085860-1  
Lab File ID: 1CL27002.D DFTPP Injection Date: 12/27/2012  
Instrument ID: BSMC5973 DFTPP Injection Time: 11:30  
Analysis Batch No.: 132965

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 198	26.2
68	Less than 2.0 % of mass 69	0.6 (1.7)1
69	Mass 69 relative abundance	36.8
70	Less than 2.0 % of mass 69	0.2 (0.5)1
127	10.0 - 80.0 % of mass 198	38.0
197	Less than 2.0 % of mass 198	0.5
198	Base Peak, 100% relative abundance	100.0
199	5.0 - 9.0 % of mass 198	6.1
275	10.0 - 60.0 % of mass 198	22.1
365	Greater than 1.0 % of mass 198	3.3
441	Present but less than mass 443	13.5
442	Greater than 50.0 % of mass 198	95.7
443	15.0 - 24.0 % of mass 442	19.2 (20.0)2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 660-132965/7	1CL27006.D	12/27/2012	12:55
	MB 660-132918/1-A	1CL27008.D	12/27/2012	13:34
	LCS 660-132918/2-A	1CL27009.D	12/27/2012	13:53
CV0256D-CS	680-85860-6	1CL27010.D	12/27/2012	14:11
CV0511AC-GS	680-85860-9	1CL27011.D	12/27/2012	14:30
CV0511II-CS	680-85860-13	1CL27012.D	12/27/2012	14:48
CV0511JJ-CS	680-85860-14	1CL27013.D	12/27/2012	15:06
CV0511LL-CS	680-85860-16	1CL27014.D	12/27/2012	15:25

# Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Analyst: Simmons, Richard B

Method Code: 680-3520C-680

Batch Open: 12/19/2012 4:15:00PM  
Batch End: 12/20/2012 10:16:00AM

## Liquid-Liquid Extraction (Continuous)

	Input Sample Lab ID (Analytical Method)	SDG	GrossWt TareWt	InitAmnt FinAmnt	Rcvd Adj1	Due Date Adj2	Analytical TAT	DIV Rank	Comments	Output Sample Lab ID
1	680-85881-B-1 (8270C_LL_PAH)	N/A		508.3 mL 0.5 mL	7 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
2	680-85881-A-2 (8270C_LL_PAH)	N/A		1047.8 mL 1 mL	6 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
3	680-85881-A-3 (8270C_LL_PAH)	N/A		1050.8 mL 1 mL	7 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
4	680-85881-B-4 (8270C_LL_PAH)	N/A		1047.8 mL 1 mL	7 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
5	680-85881-A-5 (8270C_LL_PAH)	N/A		1050.5 mL 1 mL	7 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
6	680-85888-B-1 (8270D_LL)	N/A		1047.8 mL 1 mL	6 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
7	680-85888-B-2 (8270D_LL)	N/A		1050.4 mL 1 mL	6 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
8	680-85888-B-5 (8270D_LL)	N/A		1047.9 mL 1 mL	6 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
9	680-85888-A-6 (8270D_LL)	N/A		1051.0 mL 1 mL	6 <2	12/21/12	8_Days - R	2	No residual chlorine present.	
10	680-85777-A-1 (8270D_LL)	N/A		506.2 mL 0.5 mL	6 <2	12/19/12	8_Days - R	2	No residual chlorine present.	

# Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Batch Open: 12/19/2012 4:15:00PM

Analyst: Simmons, Richard B

Method Code: 680-3520C-680

Batch End: 12/20/2012 10:16:00AM

11	680-85777-B-2 (8270D_LL)	N/A		503.2 mL	7	<2		12/19/12	8_Days - R	2	No residual chlorine present.	
12	680-85777-B-3 (8270D_LL)	N/A		501.2 mL	6	<2		12/19/12	8_Days - R	2	No residual chlorine present.	
13	680-85777-A-4 (8270D_LL)	N/A		503.1 mL	6	<2		12/19/12	8_Days - R	2	No residual chlorine present.	
14	680-85828-B-1 (8270D_LL)	N/A		505.4 mL	6	<2		12/19/12	8_Days - R	2	No residual chlorine present.	
15	680-85860-F-62 (8270C_LL_PAH)	68085860-1		540.4 mL	7	<2		12/19/12	12_Day_Rush -	4	No residual chlorine present.	
16	MB~680-260355/16 N/A	N/A		1000 mL	6	<2		N/A	N/A	N/A		
17	LCS~680-260355/17 N/A	N/A		1000 mL	6	<2		N/A	N/A	N/A		
18	680-85681-A-1~MS (8270C_LL_PAH)	N/A		502.6 mL	7	<2		12/21/12	8_Days - R	2	No residual chlorine present.	
19	680-85881-A-1~MSD (8270C_LL_PAH)	N/A		554.0 mL	7	<2		12/21/12	8_Days - R	2	No residual chlorine present.	

# Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Batch Open: 12/19/2012 4:15:00PM

Batch End: 12/20/2012 10:16:00AM

Method Code: 680-3520C-680

Analyst: Simmons, Richard B

## Batch Notes

Person's name who did the prep	RBS
Prep Solvent Name	MECL2
Prep Solvent Lot #	2902965
Prep Solvent Volume Used	70
Person's name who witnessed reagent drop	MV/RBS
Acid used for pH adjustment	Sulfuric Acid 1:1
Acid used for pH adjust Lot #	2873082
Time the first extraction started	24 hr
Time the first extraction ended	24hr 1016
Base used for pH adjustment	NA
Base used for pH adjust Lot #	NA
Time the second extraction started	24 hr
Time the second extraction ended	NA 24 hr
Silica Gel Lot Number	NA
Person's name who did the concentration	MV
Exchange Solvent Name	MeCL2
Exchange Solvent Lot #	2900544
Concentration Start Time	14:17
Concentration End Time	1539
Na2SO4 Lot Number	n/a

## Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Batch Open: 12/19/2012 4:15:00PM

Method Code: 680-3520C-680

Batch End: 12/20/2012 10:16:00AM

Analyst: Simmons, Richard B

Sufficient volume for MS/MSD? Yes	
Filter Paper Lot Number	NA
Balance ID	23
Water Bath ID	NA
ID number of the thermometer	NA
Uncorrected Temperature	NA
Water Bath Temperature	50
N-evap #	NA
N-evap temperature	NA
Uncorrected N-evap Temperature	NA
Florisil Lot #	NA
Copper Lot #	NA
Acid used for Clean Up Reagent	NA
pH Paper Lot Number	NA
Batch Comment	8270 LL box M162 DIWATER: 2871935

## Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Batch Open: 12/19/2012 4:15:00PM

Method Code: 680-3520C-680

Batch End: 12/20/2012 10:16:00AM

Analyst: Simmons, Richard B

Comments

- | Comments  |
|---|
| Login Comments for Job 85881: Pricing has been updated (6/13/12)BD  |
| Login Comments for Job 85888: SG: Dieldrin site-specific Limit 0.02 ug/L; run low-level AZ standard.  |
| Login Comments for Job 85777: SG: Dieldrin site-specific Limit 0.02 ug/L; run low-level AZ standard.  |
| Login Comments for Job 85828: SG: Dieldrin site-specific Limit 0.02 ug/L; run low-level AZ standard.  |
| Login Comments for Job 85860: LV2, EDD - PLEASE COMPLETE BY 12TH CALENDAR DAY<br>LV4, MUST BE COMPLETE IN 14 Calendar days (penalties for late data)!<br><br>SDG is in groups of 20 or less.<br>You may select a random MS/MSD if they do not designate:<br>PLEASE make sure there is one MS/MSD on their sample per batch. |
| Project ongoing Nov 2012 - May 2013   |
| Evidence of Disposal; Original COCs must be sent  |

# Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Batch Open: 12/19/2012 4:15:00PM

Analyst: Simmons, Richard B

Method Code: 680-3520C-680

Batch End: 12/20/2012 10:16:00AM

## Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
680-85881-B-1	LLBNAwksur_00052	0.5 mL	0.5 mL		
680-85881-A-2	LLBNAwksur_00052	1.0 mL	1 mL		
680-85881-A-3	LLBNAwksur_00052	1.0 mL	1 mL		
680-85881-B-4	LLBNAwksur_00052	1.0 mL	1 mL		
680-85881-A-5	LLBNAwksur_00052	1.0 mL	1 mL		
680-85888-B-1	LLBNAwksur_00052	1.0 mL	1 mL		
680-85888-B-2	LLBNAwksur_00052	1.0 mL	1 mL		
680-85888-B-5	LLBNAwksur_00052	1.0 mL	1 mL		
680-85888-A-6	LLBNAwksur_00052	1.0 mL	1 mL		
680-85777-A-1	LLBNAwksur_00052	0.5 mL	0.5 mL		
680-85777-B-2	LLBNAwksur_00052	0.5 mL	0.5 mL		
680-85777-B-3	LLBNAwksur_00052	0.5 mL	0.5 mL		
680-85828-B-4	LLBNAwksur_00052	0.5 mL	0.5 mL		
680-85860-F-62	LLBNAwksur_00052	0.5 mL	0.5 mL		
MB 680-260355/16	LLBNAwksur_00052	1.0 mL	1 mL		
LCS 680-260355/17	Benzidinwk_00138	100 uL	1 mL		
LCS 680-260355/17	BNAFULLSPK_00476	100 uL	1 mL		

## Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 680-260355

Batch Name: 12/10/2012 1:1 E:00DM

Batch Open: 12/19/2012 4:13:00PM

Method Code: 680-3520C-680

LCS 680-260355/17	LLBNAwksUR_00052	1.0 mL	1 mL
680-85881-A-1 MS	BENZIDINwk_00138	50 uL	0.5 mL
680-85881-A-1 MS	BNAFULLSPK_00476	50 uL	0.5 mL
680-85881-A-1 MS	LLBNAwksUR_00052	0.5 mL	0.5 mL
680-85881-A-1 MSD	BENZIDINwk_00138	50 uL	0.5 mL
680-85881-A-1 MSD	BNAFULLSPK_00476	50 uL	0.5 mL
680-85881-A-1 MSD	LLBNAwksUR_00052	0.5 mL	0.5 mL

## Other Reagents:

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab Sample ID: ICV 680-259918/9

Calibration Date: 12/14/2012 10:58

Instrument ID: MSK

Calib Start Date: 12/14/2012 08:15

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 12/14/2012 10:35

Lab File ID: k11410q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.181	1.140		1.93	2.00	-3.5	20.0
2-Methylnaphthalene	Ave	0.7535	0.7529		2.00	2.00	-0.0	20.0
1-Methylnaphthalene	Ave	0.7648	0.6984		1.83	2.00	-8.7	20.0
Acenaphthylene	Ave	2.036	1.815		1.78	2.00	-10.8	20.0
Acenaphthene	Ave	1.178	1.126		1.91	2.00	-4.4	20.0
Fluorene	Ave	1.354	1.280		1.89	2.00	-5.5	20.0
Phenanthrene	Ave	1.289	1.168		1.81	2.00	-9.4	20.0
Anthracene	Ave	1.277	1.169		1.83	2.00	-8.5	20.0
Fluoranthene	Ave	1.375	1.255		1.83	2.00	-8.7	20.0
Pyrene	Ave	1.505	1.414		1.88	2.00	-6.0	20.0
Benzo[a]anthracene	Ave	1.349	1.252		1.86	2.00	-7.2	20.0
Chrysene	Ave	1.310	1.156		1.76	2.00	-11.8	20.0
Benzo[b]fluoranthene	Ave	1.396	1.303		1.87	2.00	-6.6	20.0
Benzo[k]fluoranthene	Ave	1.351	1.245		1.84	2.00	-7.8	20.0
Benzo[a]pyrene	Ave	1.124	1.101		1.96	2.00	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.244	1.043		1.68	2.00	-16.2	20.0
Dibenz(a,h)anthracene	Ave	1.039	0.8858		1.71	2.00	-14.7	20.0
Benzo[g,h,i]perylene	Ave	1.097	0.9507		1.73	2.00	-13.3	20.0
o-Terphenyl	Ave	0.8562	0.8292		1.94	2.00	-3.1	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSK5973.i/1k121412.b/k11410q.d  
Lab Smp Id: CCV-2898487; LLPAH  
Inj Date : 14-DEC-2012 10:58  
Operator : LEG Inst ID: MSK5973.i  
Smp Info : CCV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSK5973.i/1k121412.b/k-b8270CLLPAH-m.m  
Meth Date : 14-Dec-2012 12:06 chemist Quant Type: ISTD  
Cal Date : 14-DEC-2012 10:35 Cal File: k11409q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.906	4.906 (1.000)		1009336	2.00000	
	2 Naphthalene	128	4.930	4.930 (1.005)		1150974	2.00000	1.93
	3 2-Methylnaphthalene	142	5.617	5.617 (1.145)		759938	2.00000	1.99
	4 1-Methylnaphthalene	142	5.717	5.717 (1.165)		704923	2.00000	1.82
	6 Acenaphthylene	152	6.569	6.569 (0.977)		1034205	2.00000	1.78
*	5 Acenaphthene-d10	164	6.722	6.722 (1.000)		569776	2.00000	
	7 Acenaphthene	154	6.757	6.757 (1.005)		641778	2.00000	1.91
	8 Fluorene	166	7.321	7.321 (1.089)		729229	2.00000	1.89
*	9 Phenanthrene-d10	188	8.355	8.355 (1.000)		809918	2.00000	
	10 Phenanthrene	178	8.379	8.379 (1.003)		945961	2.00000	1.81
	11 Anthracene	178	8.437	8.437 (1.010)		946402	2.00000	1.83
\$	15 o-Terphenyl	230	8.767	8.767 (0.784)		601536	2.00000	1.93
	12 Fluoranthene	202	9.665	9.665 (1.157)		1016210	2.00000	1.82
	14 Pyrene	202	9.912	9.912 (0.886)		1026067	2.00000	1.87
	16 Benzo(a)Anthracene	228	11.170	11.170 (0.999)		907914	2.00000	1.85
*	13 Chrysene-d12	240	11.181	11.181 (1.000)		725404	2.00000	
	17 Chrysene	228	11.211	11.211 (1.003)		838811	2.00000	1.76
	19 Benzo(b)fluoranthene	252	12.468	12.468 (0.958)		894443	2.00000	1.86
	20 Benzo(k)fluoranthene	252	12.503	12.503 (0.960)		854825	2.00000	1.84
	21 Benzo(a)pyrene	252	12.938	12.938 (0.994)		756038	2.00000	1.96
*	18 Perylene-d12	264	13.020	13.020 (1.000)		686421	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	14.942	14.942 (1.336)		756445	2.00000	1.67
	23 Dibenzo(a,h)anthracene	278	14.977	14.977 (1.150)		608002	2.00000	1.70
	24 Benzo(g,h,i)perylene	276	15.529	15.529 (1.193)		652587	2.00000	1.73

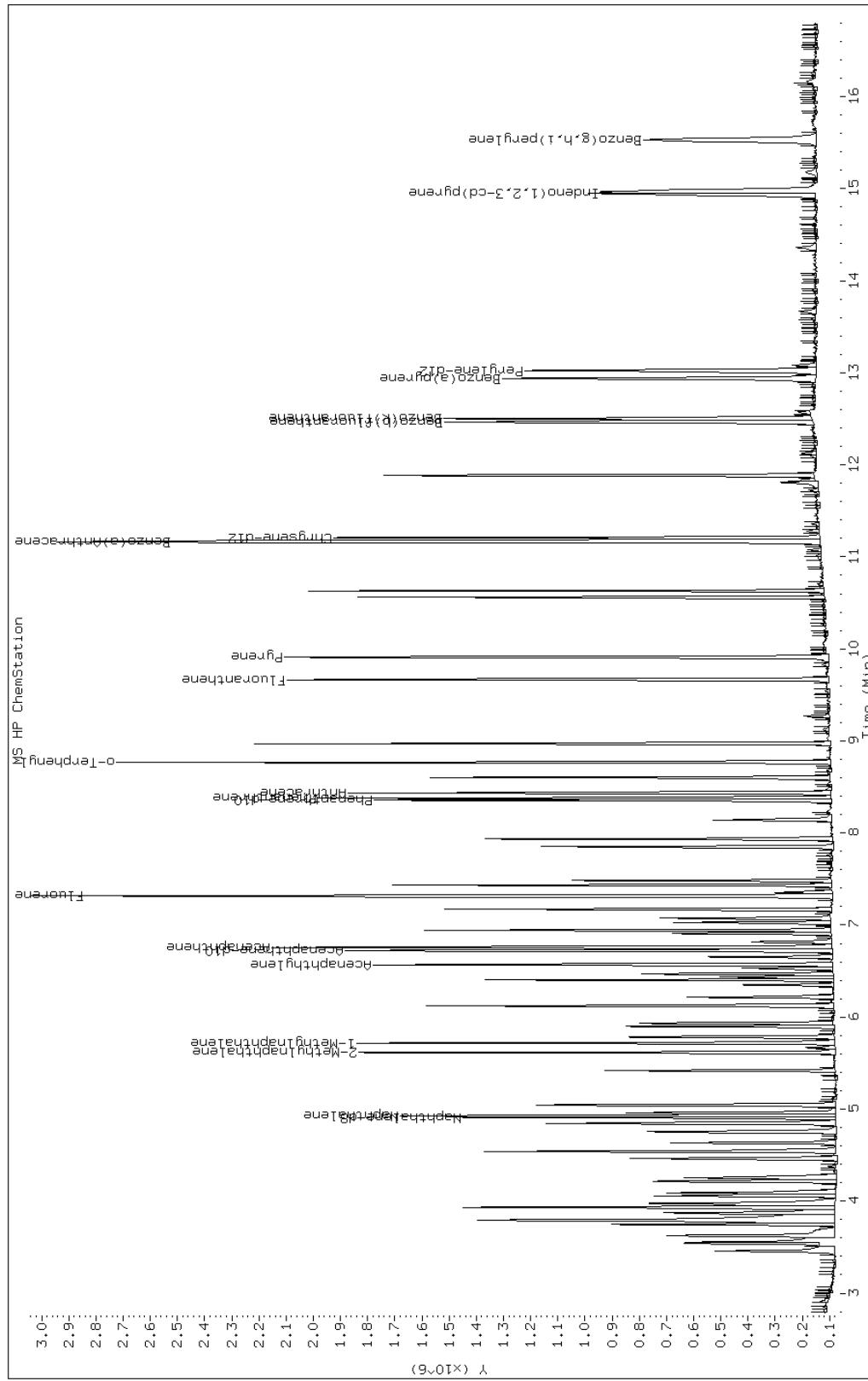
Data File: k11410q.d

Date: 14-DEC-2012 10:58

C1ient TD:

Instrument: MSK5973.i

Sample Info: CCV-2898487: I.I.PAH



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab Sample ID: ICV 680-261214/9

Calibration Date: 12/21/2012 13:52

Instrument ID: MSY

Calib Start Date: 12/21/2012 11:14

GC Column: HP-5MS ID: 0.25 (mm)

Calib End Date: 12/21/2012 13:30

Lab File ID: yl2113q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.179	1.128		1.91	2.00	-4.3	20.0
2-Methylnaphthalene	Ave	0.7356	0.7321		1.99	2.00	-0.5	20.0
1-Methylnaphthalene	Ave	0.7741	0.7035		1.82	2.00	-9.1	20.0
Acenaphthylene	Ave	2.067	1.863		1.80	2.00	-9.8	20.0
Acenaphthene	Ave	1.225	1.106		1.80	2.00	-9.8	20.0
Fluorene	Ave	1.374	1.321		1.92	2.00	-3.8	20.0
Phenanthrene	Ave	1.232	1.083		1.76	2.00	-12.1	20.0
Anthracene	Ave	1.178	1.038		1.76	2.00	-11.9	20.0
Fluoranthene	Ave	1.436	1.224		1.70	2.00	-14.8	20.0
Pyrene	Ave	1.815	1.592		1.75	2.00	-12.3	20.0
Benzo[a]anthracene	Ave	1.419	1.233		1.74	2.00	-13.1	20.0
Chrysene	LinF	1.442	1.143		1.81	2.00	-9.6	20.0
Benzo[b]fluoranthene	LinF	1.680	1.414		1.93	2.00	-3.4	20.0
Benzo[k]fluoranthene	LinF	1.641	1.559		2.09	2.00	4.4	20.0
Benzo[a]pyrene	LinF	1.337	1.225		2.03	2.00	1.5	20.0
Indeno[1,2,3-cd]pyrene	LinF	1.311	1.093		2.01	2.00	0.6	20.0
Dibenz(a,h)anthracene	LinF	1.207	1.043		2.06	2.00	2.9	20.0
Benzo[g,h,i]perylene	LinF	1.242	1.028		1.96	2.00	-2.1	20.0
o-Terphenyl	Ave	1.080	0.9695		1.80	2.00	-10.2	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSY5975.i/1y122112.b/y12113q.d  
Lab Smp Id: ICV-2898487; LLPAH  
Inj Date : 21-DEC-2012 13:52  
Operator : VHB Inst ID: MSY5975.i  
Smp Info : ICV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m  
Meth Date : 21-Dec-2012 14:11 chemist Quant Type: ISTD  
Cal Date : 21-DEC-2012 13:30 Cal File: y12112q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392 (1.000)		98350	2.00000	
	2 Naphthalene	128	3.413	3.413 (1.006)		110904	2.00000	1.91
	3 2-Methylnaphthalene	142	4.012	4.012 (1.183)		72000	2.00000	1.99
	4 1-Methylnaphthalene	142	4.098	4.098 (1.208)		69187	2.00000	1.81
	6 Acenaphthylene	152	4.788	4.788 (0.975)		109224	2.00000	1.80
*	5 Acenaphthene-d10	164	4.911	4.911 (1.000)		58614	2.00000	
	7 Acenaphthene	154	4.938	4.938 (1.005)		64806	2.00000	1.80
	8 Fluorene	166	5.376	5.376 (1.095)		77458	2.00000	1.92
*	9 Phenanthrene-d10	188	6.162	6.162 (1.000)		89447	2.00000	
	10 Phenanthrene	178	6.178	6.178 (1.003)		96849	2.00000	1.75
	11 Anthracene	178	6.227	6.227 (1.010)		92834	2.00000	1.76
\$	15 o-Terphenyl	230	6.494	6.494 (0.766)		68237	2.00000	1.79
	12 Fluoranthene	202	7.189	7.189 (1.167)		109450	2.00000	1.70
	14 Pyrene	202	7.382	7.382 (0.871)		112023	2.00000	1.75
	16 Benzo(a)Anthracene	228	8.462	8.462 (0.999)		86809	2.00000	1.73
*	13 Chrysene-d12	240	8.473	8.473 (1.000)		70382	2.00000	
	17 Chrysene	228	8.494	8.494 (1.003)		80440	2.00000	1.80
	19 Benzo(b)fluoranthene	252	9.409	9.409 (0.964)		89864	2.00000	1.93
	20 Benzo(k)fluoranthene	252	9.436	9.436 (0.967)		99083	2.00000	2.08
	21 Benzo(a)pyrene	252	9.703	9.703 (0.995)		77876	2.00000	2.03
*	18 Perylene-d12	264	9.757	9.757 (1.000)		63566	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.901	10.901 (1.287)		76902	2.00000	2.01
	23 Dibenzo(a,h)anthracene	278	10.928	10.928 (1.120)		66318	2.00000	2.05
	24 Benzo(g,h,i)perylene	276	11.244	11.244 (1.152)		65321	2.00000	1.95

Data File: y12113q.d

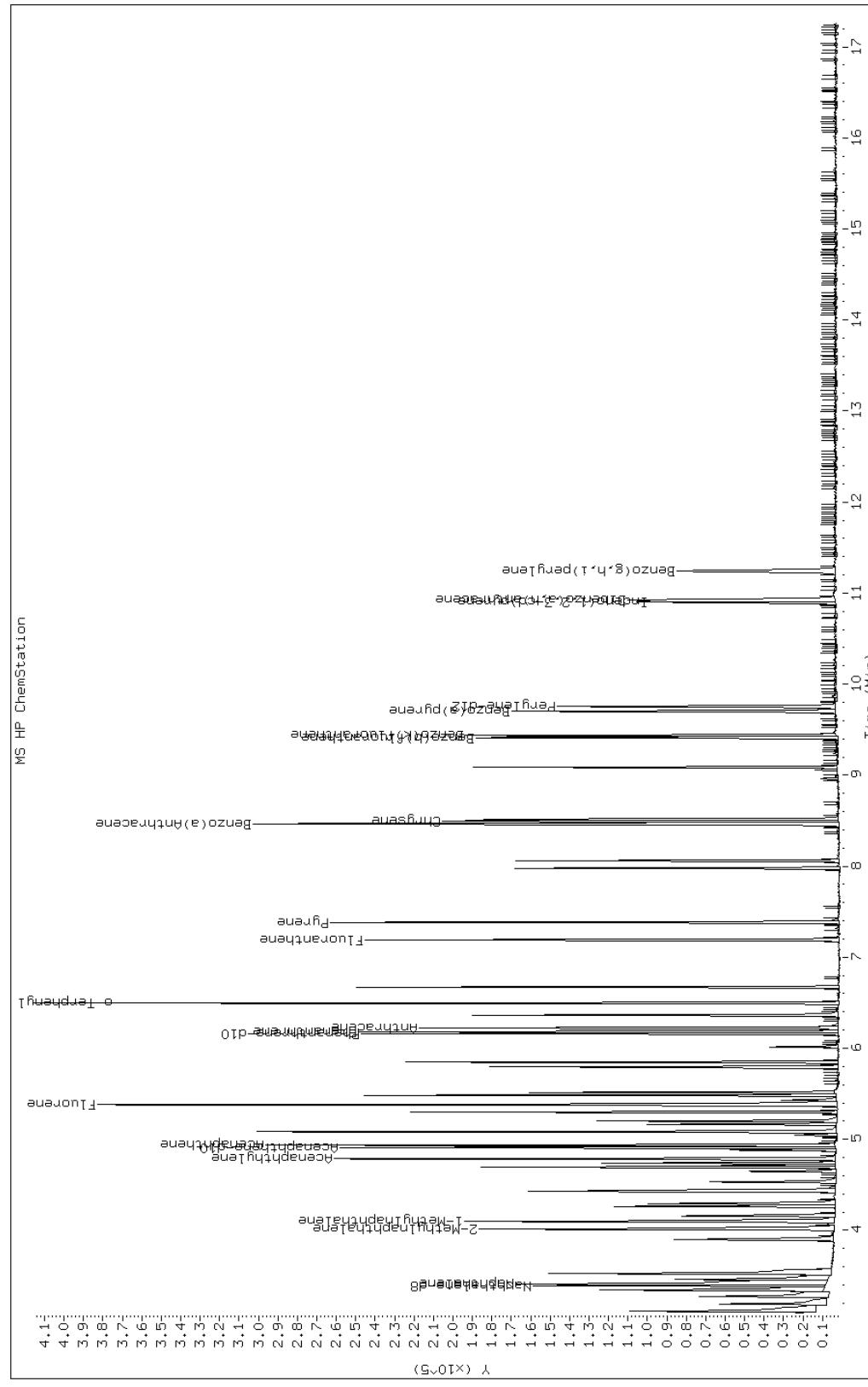
Date: 21-DEC-2012 13:52

Client ID:

Instrument: MSY5975.i

Sample Info: ICV-2898487; LLPAH

Operator: VHB



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa Job No.: 680-85860-1

SDG No.: 68085860-1

Lab Sample ID: ICV 660-131833/10 Calibration Date: 11/26/2012 15:35

Instrument ID: BSMA5973 Calib Start Date: 11/26/2012 13:48

GC Column: DB-5MS ID: 250.00 (um) Calib End Date: 11/26/2012 15:20

Lab File ID: 1AK26010.D Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	0.9631	0.9444	0.0000	19600	20000	-1.9	35.0
2-Methylnaphthalene	Ave	0.5480	0.5568	0.0000	20300	20000	1.6	35.0
1-Methylnaphthalene	Ave	0.5728	0.6102	0.0000	21300	20000	6.5	35.0
Acenaphthylene	Ave	1.684	1.613	0.0000	19200	20000	-4.2	35.0
Acenaphthene	Ave	0.9469	0.8962	0.0000	18900	20000	-5.4	35.0
Fluorene	Ave	1.148	1.134	0.0000	19700	20000	-1.3	35.0
Phenanthrene	Ave	1.027	0.9427	0.0000	18400	20000	-8.2	35.0
Anthracene	Ave	1.010	0.9441	0.0000	18700	20000	-6.5	35.0
Carbazole	Ave	0.8758	0.8071	0.0000	18400	20000	-7.8	35.0
Fluoranthene	Ave	1.081	1.079	0.0000	20000	20000	-0.1	35.0
Pyrene	Ave	1.179	1.150	0.0000	19500	20000	-2.4	35.0
Benzo[a]anthracene	LinF	1.178	1.054	0.0000	19700	20000	-1.5	35.0
Chrysene	Ave	1.040	0.9169	0.0000	17600	20000	-11.8	35.0
Benzo[b]fluoranthene	Ave	1.060	1.095	0.0000	20700	20000	3.3	35.0
Benzo[k]fluoranthene	Ave	1.149	1.006	0.0000	17500	20000	-12.5	35.0
Benzo[a]pyrene	Ave	1.012	0.8991	0.0000	17800	20000	-11.2	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9303	0.9760	0.0000	21000	20000	4.9	35.0
Dibenz(a,h)anthracene	Ave	0.8354	0.9790	0.0000	23400	20000	17.2	35.0
Benzo[g,h,i]perylene	Ave	0.9300	0.9559	0.0000	20600	20000	2.8	35.0
o-Terphenyl	Ave	0.5931	0.5064	0.0000	17100	20000	-14.6	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26010.D  
Lab Smp Id: ICV-1448440  
Inj Date : 26-NOV-2012 15:35  
Operator : SCC Inst ID: BSMA5973.i  
Smp Info : ICV-1448440  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\FASTPAHi-m.m  
Meth Date : 27-Nov-2012 09:59 cantins Quant Type: ISTD  
Cal Date : 26-NOV-2012 15:20 Cal File: 1AK26009.D  
Als bottle: 10 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: pah.sub  
Target Version: 4.14  
Processing Host: TAM1000

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion(value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/ml)
* 1 Naphthalene-d8	136	2.776	2.773 (1.000)		760524	40.0000	
* 6 Acenaphthene-d10	164	3.817	3.815 (1.000)		463040	40.0000	
* 10 Phenanthrene-d10	188	4.811	4.814 (1.000)		729168	40.0000	
\$ 14 o-Terphenyl	230	5.105	5.108 (1.061)		184606	17.0747	17.0747
* 18 Chrysene-d12	240	6.884	6.886 (1.000)		672174	40.0000	
* 23 Perylene-d12	264	7.995	7.992 (1.000)		627465	40.0000	
2 Naphthalene	128	2.786	2.784 (1.004)		359131	19.6113	19.6113
3 2-Methylnaphthalene	141	3.187	3.190 (1.148)		211726	20.3204	20.3203
4 1-Methylnaphthalene	142	3.246	3.248 (1.169)		232038	21.3068	21.3067
5 Acenaphthylene	152	3.726	3.724 (0.976)		373412	19.1525	19.1524
7 Acenaphthene	154	3.833	3.836 (1.004)		207478	18.9276	18.9275
9 Fluorene	166	4.164	4.162 (1.091)		262469	19.7463	19.7462
11 Phenanthrene	178	4.827	4.830 (1.003)		343709	18.3504	18.3503
12 Anthracene	178	4.864	4.862 (1.011)		344200	18.6964	18.6964
13 Carbazole	167	4.993	4.995 (1.038)		294269	18.4324	18.4324
15 Fluoranthene	202	5.719	5.722 (1.189)		393431	19.9725	19.9725
16 Pyrene	202	5.895	5.893 (0.856)		386476	19.5133	19.5133

Data File: \\tam-chemsvr\chem\SM\BSMA5973.i\1A112612.b\1AK26010.D Page 2  
Report Date: 27-Nov-2012 10:02

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)
17 Benzo(a)anthracene	228	6.873	6.870	(0.998)	354298	19.6975	19.6975
19 Chrysene	228	6.905	6.902	(1.003)	308166	17.6392	17.6391
20 Benzo(b)fluoranthene	252	7.706	7.704	(0.964)	343494	20.6659	20.6658
21 Benzo(k)fluoranthene	252	7.728	7.725	(0.967)	315562	17.5087	17.5086
22 Benzo(a)pyrene	252	7.941	7.939	(0.993)	282061	17.7683	17.7682
24 Indeno(1,2,3-cd)pyrene	276	8.930	8.932	(1.117)	306205	20.9831	20.9831
25 Dibenzo(a,h)anthracene	278	8.962	8.959	(1.121)	307127	23.4353	23.4353 (M)
26 Benzo(g,h,i)perylene	276	9.218	9.216	(1.153)	299886	20.5560	20.5560

QC Flag Legend

M - Compound response manually integrated.

Data File: 1AK26010.D

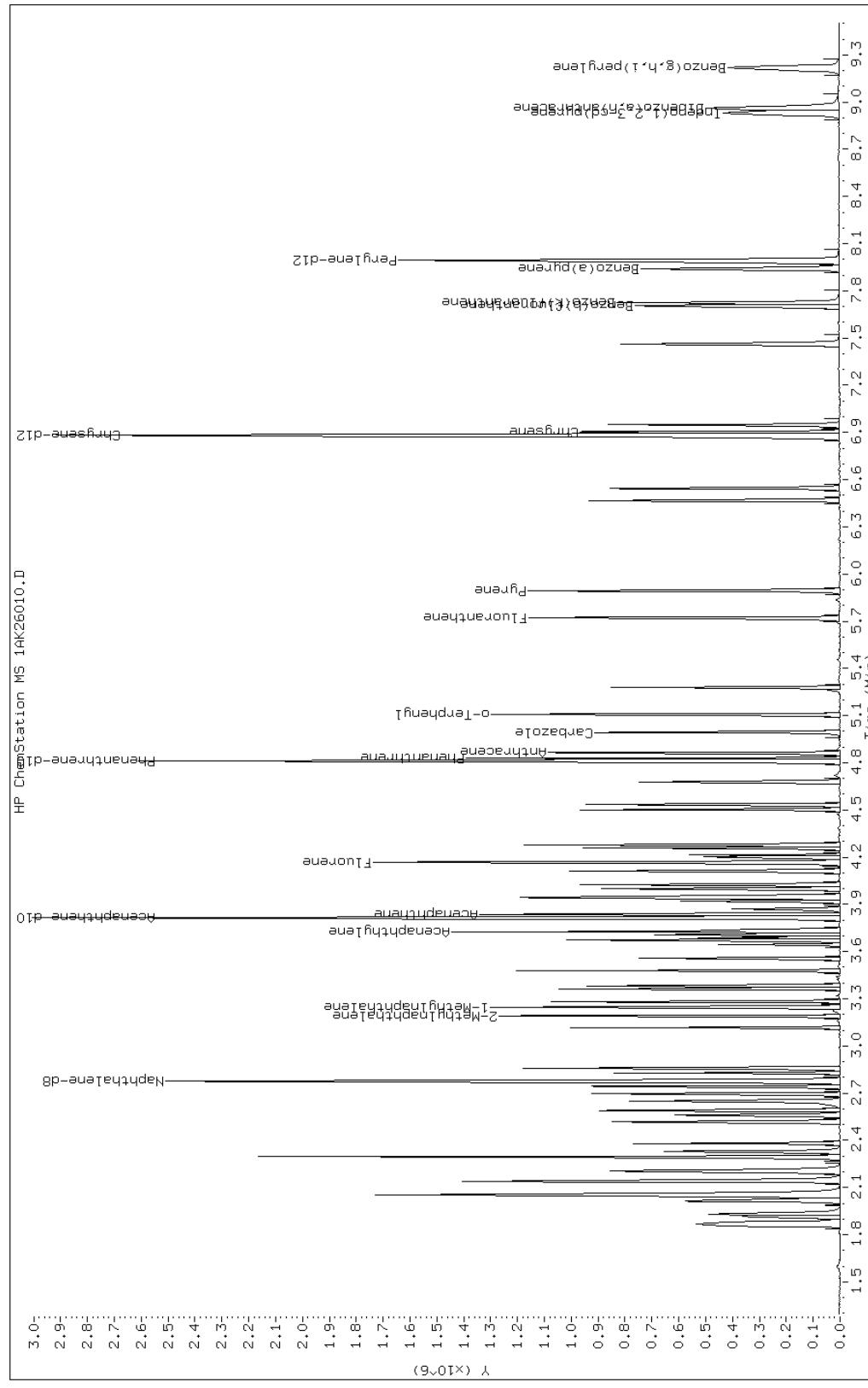
Date: 26-NOV-2012 15:35

Client ID:

Instrument: BSMA5973.i

Sample Info: ICV-1448440

Operator: SCC



## Manual Integration Report

Data File: 1AK26010.D  
Inj. Date and Time: 26-NOV-2012 15:35  
Instrument ID: BSMA5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 11/27/2012

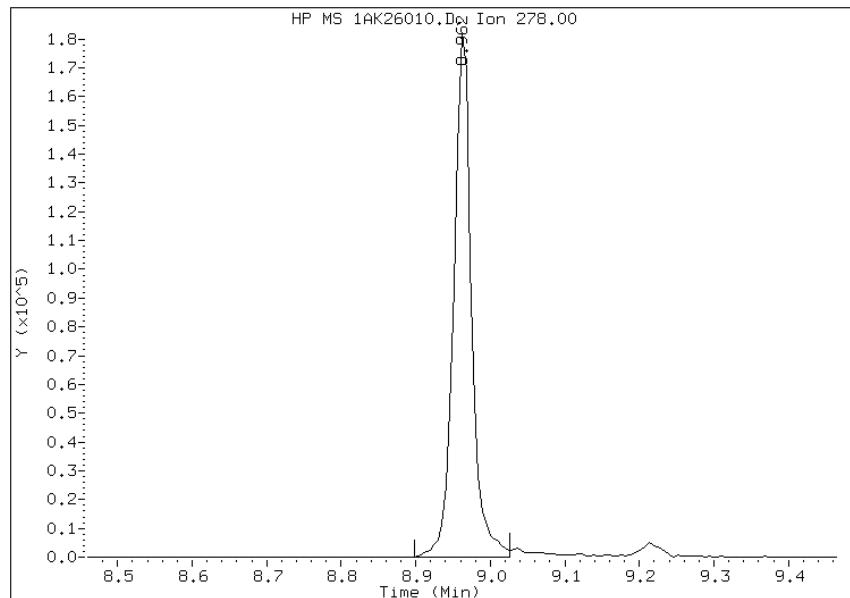
### Processing Integration Results

RT: 8.96

Response: 298629

Amount: 23

Conc: 23



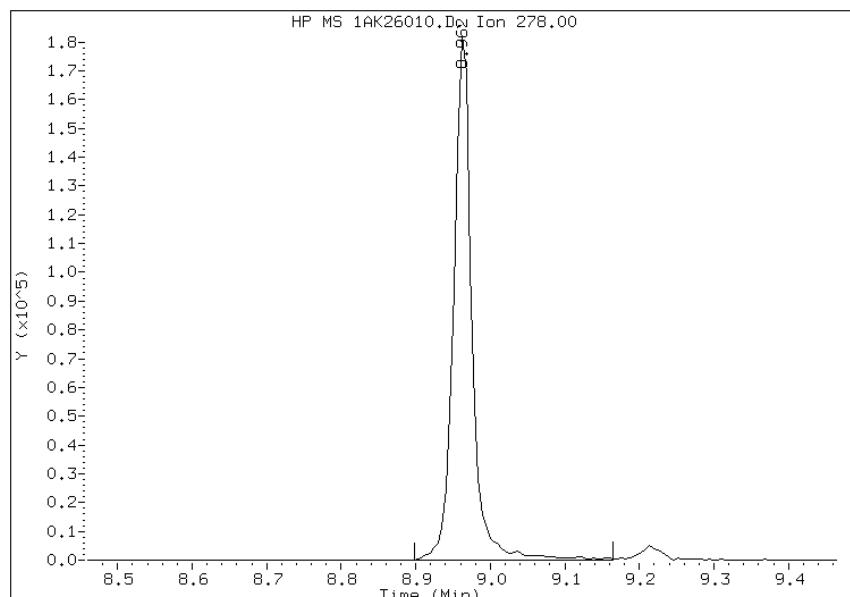
### Manual Integration Results

RT: 8.96

Response: 307127

Amount: 23

Conc: 23



Manually Integrated By: cantins  
Modification Date: 27-Nov-2012 10:02  
Manual Integration Reason: Baseline Event

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tampa

Job No.: 680-85860-1

SDG No.: 68085860-1

Lab Sample ID: ICV 660-131957/10

Calibration Date: 11/29/2012 13:25

Instrument ID: BSMC5973

Calib Start Date: 11/29/2012 11:16

GC Column: DB-5MS ID: 250.00 (um)

Calib End Date: 11/29/2012 13:06

Lab File ID: 1CK29010.D

Conc. Units: ug/Kg

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.086	1.019	0.0000	18800	20000	-6.1	35.0
2-Methylnaphthalene	Ave	0.6582	0.6424	0.0000	19500	20000	-2.4	35.0
1-Methylnaphthalene	Ave	0.6402	0.6087	0.0000	19000	20000	-4.9	35.0
Acenaphthylene	Ave	1.578	1.597	0.0000	20200	20000	1.2	35.0
Acenaphthene	Ave	0.9791	0.9865	0.0000	20200	20000	0.8	35.0
Fluorene	Ave	1.266	1.193	0.0000	18800	20000	-5.8	35.0
Phenanthrene	Ave	1.165	1.056	0.0000	18100	20000	-9.4	35.0
Anthracene	Ave	1.077	1.010	0.0000	18700	20000	-6.3	35.0
Carbazole	Ave	0.9728	0.9313	0.0000	19100	20000	-4.3	35.0
Fluoranthene	Ave	1.173	1.155	0.0000	19700	20000	-1.5	35.0
Pyrene	Ave	1.099	1.088	0.0000	19800	20000	-1.0	35.0
Benzo[a]anthracene	Ave	1.066	1.050	0.0000	19700	20000	-1.5	35.0
Chrysene	Ave	1.145	1.038	0.0000	18100	20000	-9.3	35.0
Benzo[b]fluoranthene	Ave	0.995	0.9176	0.0000	18400	20000	-7.8	35.0
Benzo[k]fluoranthene	Ave	1.063	1.134	0.0000	21400	20000	6.8	35.0
Benzo[a]pyrene	Ave	0.9387	0.8530	0.0000	18200	20000	-9.1	35.0
Indeno[1,2,3-cd]pyrene	Ave	0.9067	0.9458	0.0000	20900	20000	4.3	35.0
Dibenz(a,h)anthracene	Ave	0.8975	0.9778	0.0000	21800	20000	8.9	35.0
Benzo[g,h,i]perylene	Ave	0.9862	1.003	0.0000	20300	20000	1.7	35.0
o-Terphenyl	Ave	0.5681	0.5106	0.0000	18000	20000	-10.1	35.0

TestAmerica Laboratories

Semivolatile 8270C low level PAH

Data file : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912\_pahIC.b\1CK29010.D  
Lab Smp Id: ICV-1448440  
Inj Date : 29-NOV-2012 13:25  
Operator : SCC  
Smp Info : ICV-1448440  
Misc Info :  
Comment :  
Method : \\tam-chemsvr\chem\SM\BSMC5973.i\1C112912\_pahIC.b\ a-bFASTPAHi-m.m  
Meth Date : 29-Nov-2012 15:48 cantins Quant Type: ISTD  
Cal Date : 29-NOV-2012 13:06 Cal File: 1CK29009.D  
Als bottle: 10 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE  
Target Version: 4.14  
Processing Host: TAM1000  
Compound Sublist: pah.sub

Concentration Formula: Amt \* DF \* 1/Vi \* Vt/Vo \* A \* B \* C \* D \* CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	1.000	Injection Volume
Vt	1.000	Final Volume
Vo	1000.000	Sample Volume
A	1000.000	uL to mL conversion
B	1000.000	mL to L conversion
C	0.00100	ng to ug conversion
D	1.000	ug to mg conversion (value = 1= if no con
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/l)
*	1 Naphthalene-d8	136	3.921	3.922 (1.000)		2559683	40.0000	
*	6 Acenaphthene-d10	164	5.010	5.010 (1.000)		1821949	40.0000	
*	10 Phenanthrene-d10	188	5.968	5.975 (1.000)		3290747	40.0000	
\$	14 o-Terphenyl	230	6.221	6.228 (1.042)		840054	17.9750	17.9749
*	18 Chrysene-d12	240	7.927	7.933 (1.000)		3654392	40.0000	
*	23 Perylene-d12	264	9.198	9.198 (1.000)		3944755	40.0000	
	2 Naphthalene	128	3.933	3.934 (1.003)		1304708	18.7798	18.7798
	3 2-Methylnaphthalene	142	4.357	4.363 (1.111)		822121	19.5174	19.5173
	4 1-Methylnaphthalene	142	4.421	4.422 (1.127)		779094	19.0164	19.0163
	5 Acenaphthylene	152	4.921	4.922 (0.982)		1454798	20.2434	20.2434
	7 Acenaphthene	154	5.027	5.028 (1.004)		898704	20.1522	20.1521
	9 Fluorene	166	5.351	5.351 (1.068)		1086777	18.8486	18.8486
	11 Phenanthrene	178	5.986	5.986 (1.003)		1736713	18.1155	18.1154
	12 Anthracene	178	6.021	6.022 (1.009)		1661524	18.7455	18.7454
	13 Carbazole	167	6.127	6.128 (1.027)		1532315	19.1458	19.1458
	15 Fluoranthene	202	6.833	6.833 (1.145)		1900111	19.6934	19.6934
	16 Pyrene	202	7.004	7.004 (0.884)		1987948	19.7999	19.7998

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)
17 Benzo(a)anthracene	228	7.921	7.922 (0.999)	1918343	19.6997	19.6997	
19 Chrysene	228	7.951	7.951 (1.003)	1896834	18.1307	18.1306	
20 Benzo(b)fluoranthene	252	8.815	8.822 (0.958)	1809933	18.4366	18.4365	
21 Benzo(k)fluoranthene	252	8.845	8.845 (0.962)	2237627	21.3510	21.3509	
22 Benzo(a)pyrene	252	9.139	9.145 (0.994)	1682514	18.1743	18.1743	
24 Indeno(1,2,3-cd)pyrene	276	10.492	10.504 (1.141)	1865446	20.8631	20.8630 (M)	
25 Dibenzo(a,h)anthracene	278	10.515	10.521 (1.143)	1928582	21.7894	21.7893 (M)	
26 Benzo(g,h,i)perylene	276	10.886	10.898 (1.184)	1978606	20.3435	20.3434 (M)	

QC Flag Legend

M - Compound response manually integrated.

Data File: 1CK29010.D

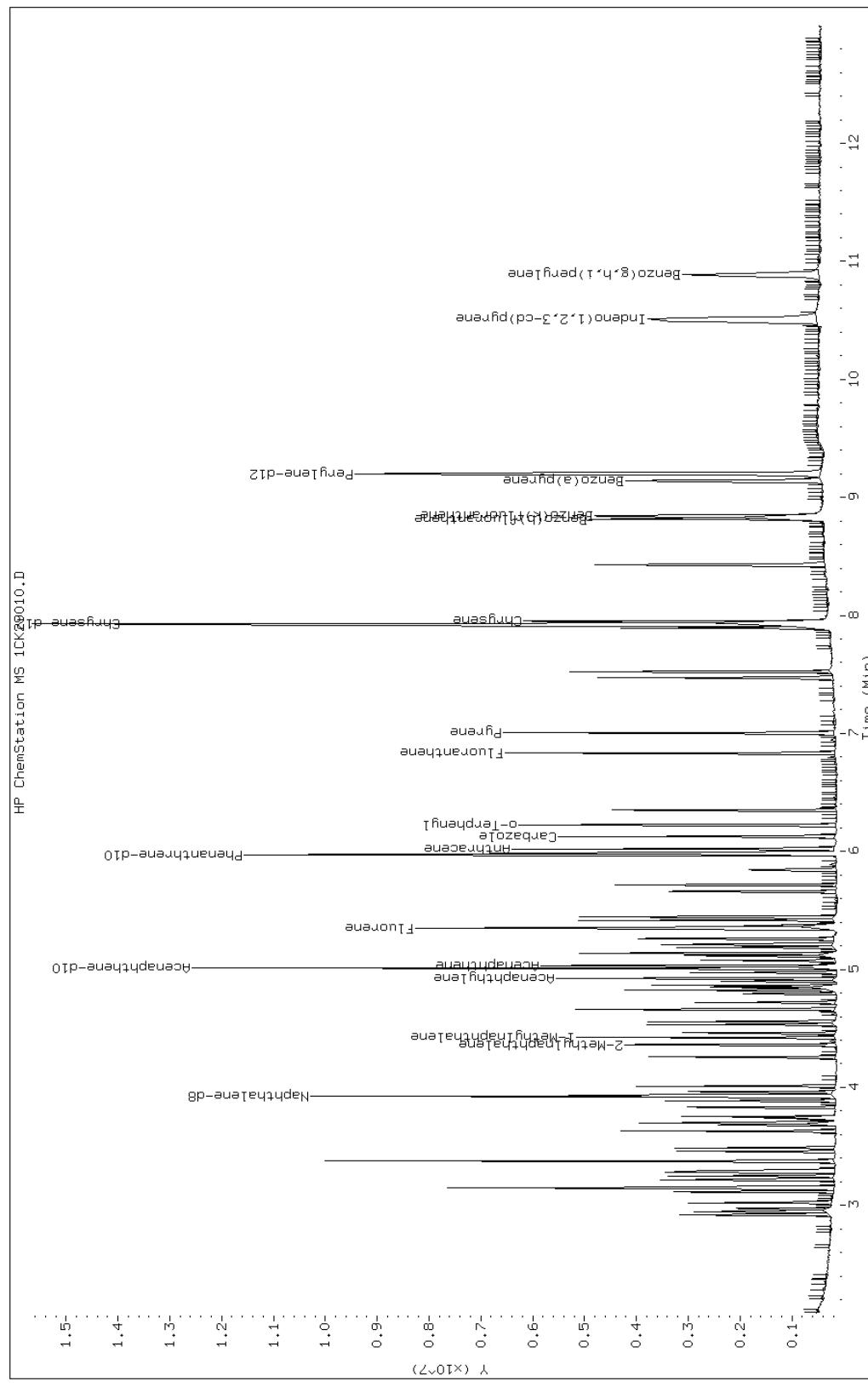
Date: 29-NOV-2012 13:25

Client ID:

Instrument: BSMC5973.i

Sample Info: ICV-1448440

Operator: SCC



## Manual Integration Report

Data File: 1CK29010.D  
Inj. Date and Time: 29-NOV-2012 13:25  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 24 Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 11/29/2012

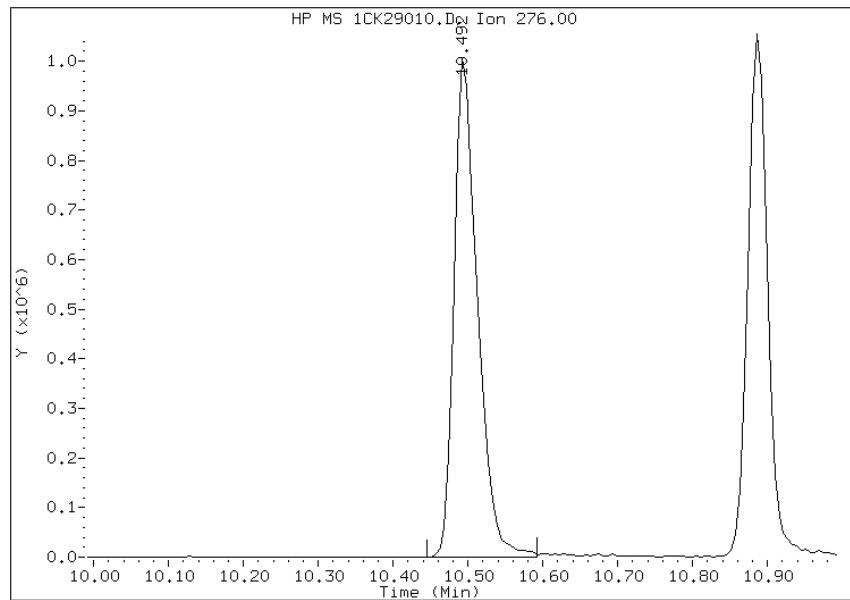
### Processing Integration Results

RT: 10.49

Response: 2163351

Amount: 24

Conc: 806



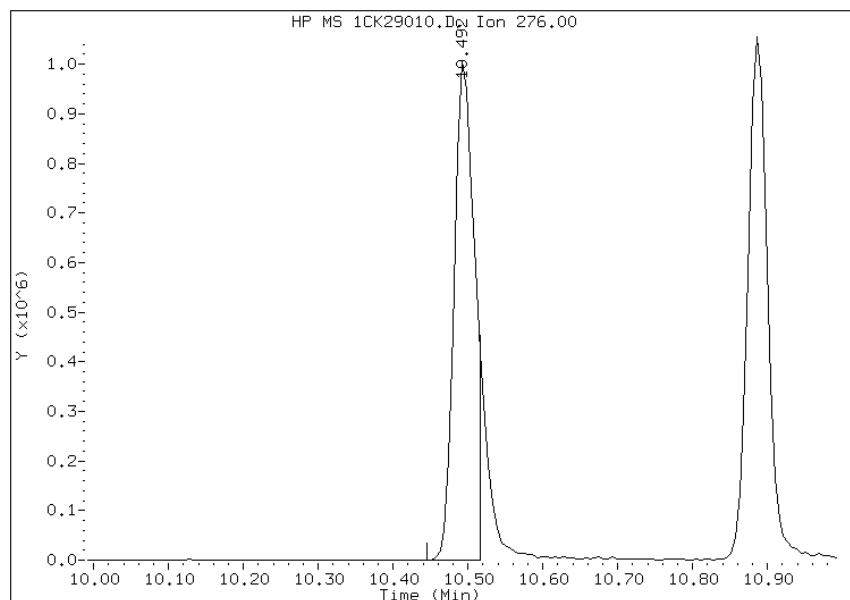
### Manual Integration Results

RT: 10.49

Response: 1865446

Amount: 21

Conc: 21



Manually Integrated By: cantins  
Modification Date: 29-Nov-2012 15:51  
Manual Integration Reason: Split Peak

## Manual Integration Report

Data File: 1CK29010.D  
Inj. Date and Time: 29-NOV-2012 13:25  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 25 Dibenzo(a,h)anthracene  
CAS #: 53-70-3  
Report Date: 11/29/2012

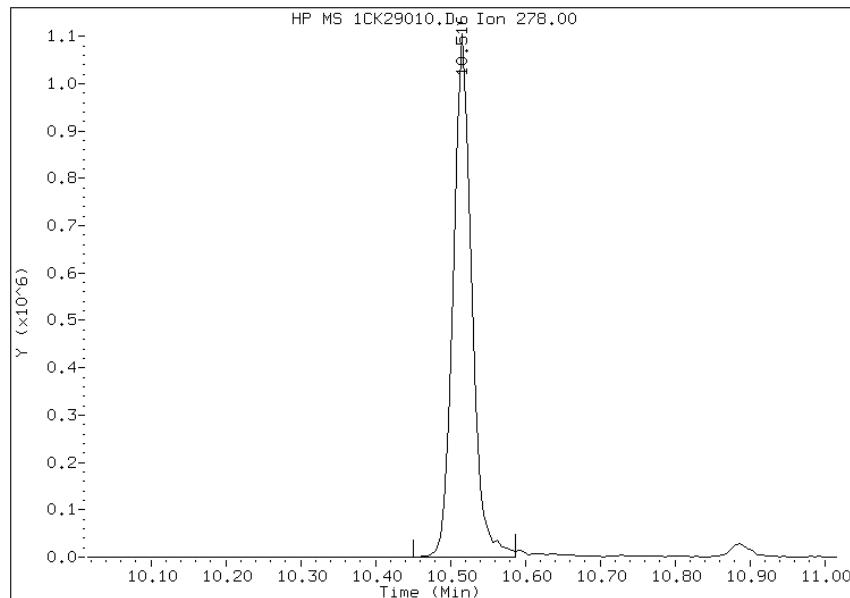
### Processing Integration Results

RT: 10.52

Response: 1879071

Amount: 21

Conc: 708



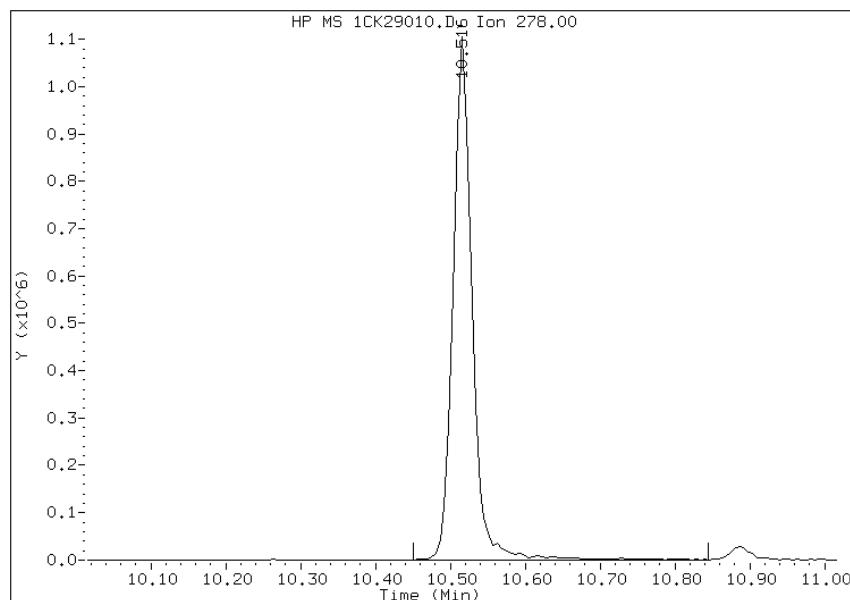
### Manual Integration Results

RT: 10.52

Response: 1928582

Amount: 22

Conc: 22



Manually Integrated By: cantins  
Modification Date: 29-Nov-2012 15:51  
Manual Integration Reason: Baseline Event

## Manual Integration Report

Data File: 1CK29010.D  
Inj. Date and Time: 29-NOV-2012 13:25  
Instrument ID: BSMC5973.i  
Client ID:  
Compound: 26 Benzo(g,h,i)perylene  
CAS #: 191-24-2  
Report Date: 11/29/2012

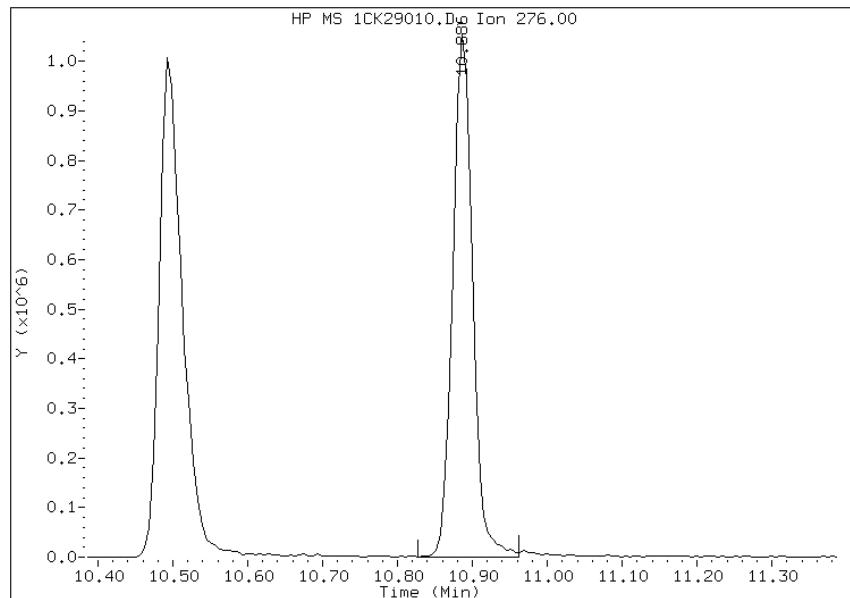
### Processing Integration Results

RT: 10.89

Response: 1929528

Amount: 20

Conc: 661



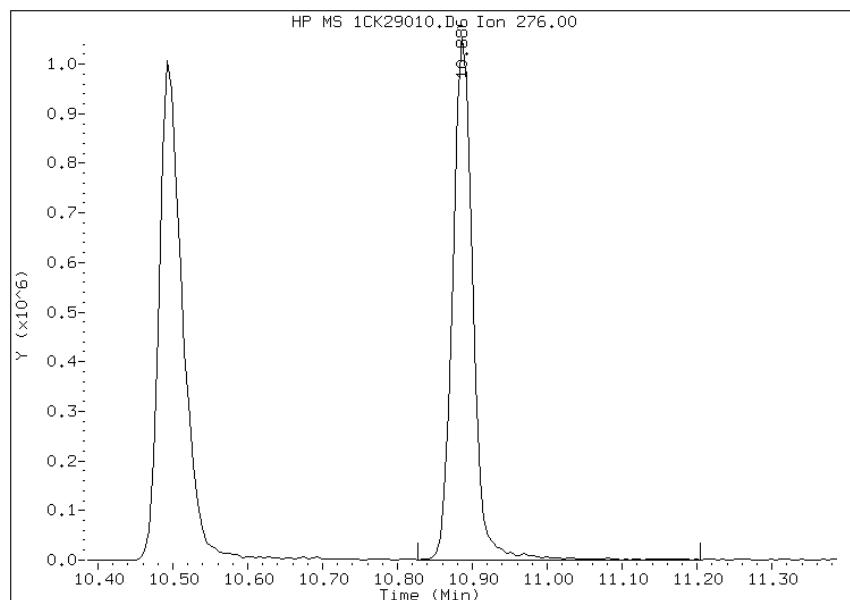
### Manual Integration Results

RT: 10.89

Response: 1978606

Amount: 20

Conc: 20



Manually Integrated By: cantins  
Modification Date: 29-Nov-2012 15:51  
Manual Integration Reason: Baseline Event

**ATTACHMENT C**

**CASE NARRATIVE**

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
SDG: 68085860-1

**Job ID: 680-85860-1**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-85860-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### RECEIPT

The samples were received on 12/15/2012 and 12/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.6° C, 4.2° C and 5.6° C.

#### **SEMOVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL**

Samples FM0199A-CS-SP (680-85860-1), FM0199B-CS-SP (680-85860-2), CV0256A-CS (680-85860-3), CV0256B-CS (680-85860-4), CV0256C-CS (680-85860-5), CV0256D-CS (680-85860-6), CV0256E-GS (680-85860-7), CV0061B-CS (680-85860-8), CV0511AC-GS (680-85860-9), CV0511FF-CS (680-85860-10), CV0511GG-CS (680-85860-11), CV0511HH-CS (680-85860-12), CV0511II-CS (680-85860-13), CV0511JJ-CS (680-85860-14), CV0511KK-CS (680-85860-15), CV0511LL-CS (680-85860-16), CV0511MM-CS (680-85860-17), CV0511NN-CS (680-85860-18), CV0511OO-CS (680-85860-19) and CV0511PP-CS (680-85860-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 12/19/2012 and 12/26/2012 and analyzed on 12/21/2012, 12/22/2012 and 12/27/2012.

Samples FM0199A-CS-SP (680-85860-1)[4X], FM0199B-CS-SP (680-85860-2)[4X], CV0256C-CS (680-85860-5)[4X], CV0256D-CS (680-85860-6)[4X], CV0256E-GS (680-85860-7)[4X], CV0511FF-CS (680-85860-10)[4X], CV0511GG-CS (680-85860-11)[4X], CV0511HH-CS (680-85860-12)[4X] and CV0511NN-CS (680-85860-18)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Phenanthrene was detected in method blank MB 660-132918/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The following samples was diluted due to the nature of the sample matrix : (680-85881-1 MS), (680-85881-1 MSD), MW-15 (680-85881-1). As such, spike and surrogate recoveries may have been impacted. Several analytes recovered the recovery criteria for the MS/MSD of sample CV0256C-CS (680-85860-5) in batch 660-132853. Benzo[g,h,i]perylene and Phenanthrene exceeded the rpd limit.

Refer to the QC report for details.

#### **SEMOVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**

Sample CV0511SSS-SW (680-85860-62) was analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270C. The samples were prepared on 12/19/2012 and analyzed on 12/27/2012.

No difficulties were encountered during the Low-Level PAH analysis.

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
SDG: 68085860-1

### Job ID: 680-85860-1 (Continued)

#### Laboratory: TestAmerica Savannah (Continued)

All quality control parameters were within the acceptance limits.

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**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: FM0199A-CS-SP

Date Collected: 12/13/12 11:00  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-1

Matrix: Solid  
 Percent Solids: 74.4

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	540	U	540	110	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
<b>Acenaphthylene</b>	<b>32</b>	<b>J</b>	220	27	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Anthracene	150		45	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Benzo[a]anthracene	730		43	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Benzo[a]pyrene	550		56	28	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Benzo[b]fluoranthene	870		66	33	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Benzo[g,h,i]perylene	540		110	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Benzo[k]fluoranthene	270		43	19	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Chrysene	700		48	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Dibenz(a,h)anthracene	320		110	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Fluoranthene	1100		110	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Fluorene	49	J	110	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Indeno[1,2,3-cd]pyrene	440		110	38	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
1-Methylnaphthalene	140	J	220	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
2-Methylnaphthalene	160	J	220	38	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Naphthalene	190	J	220	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Phenanthrene	660		43	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
Pyrene	820		110	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:30	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	51		30 - 130				12/19/12 14:30	12/22/12 11:30	4

## Client Sample ID: FM0199B-CS-SP

Date Collected: 12/13/12 10:46  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-2

Matrix: Solid  
 Percent Solids: 64.3

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6200	U	6200	1200	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Acenaphthylene	2500	U	2500	310	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Anthracene	520	U	520	260	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Benzo[a]anthracene	500	U	500	240	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Benzo[a]pyrene	650	U	650	320	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Benzo[b]fluoranthene	760	U	760	380	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
<b>Benzo[g,h,i]perylene</b>	<b>690</b>	<b>J</b>	1200	270	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Benzo[k]fluoranthene	500	U	500	220	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Chrysene	560	U	560	280	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Dibenz(a,h)anthracene	1200	U	1200	250	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
<b>Fluoranthene</b>	<b>290</b>	<b>J</b>	1200	250	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Fluorene	1200	U	1200	250	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Indeno[1,2,3-cd]pyrene	1200	U	1200	440	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
1-Methylnaphthalene	2500	U	2500	270	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
2-Methylnaphthalene	2500	U	2500	440	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Naphthalene	2500	U	2500	270	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Phenanthrene	500	U	500	240	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
Pyrene	330	J	1200	230	ug/Kg	⊗	12/19/12 14:30	12/22/12 11:45	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	41		30 - 130				12/19/12 14:30	12/22/12 11:45	4

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0256A-CS

Date Collected: 12/13/12 09:39  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-3

Matrix: Solid  
 Percent Solids: 81.2

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
<b>Acenaphthylene</b>	<b>24</b>	<b>J</b>	49	6.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Anthracene	52		10	5.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Benzo[a]anthracene	190		9.9	4.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Benzo[a]pyrene	150		13	6.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Benzo[b]fluoranthene	240		15	7.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Benzo[g,h,i]perylene	94		25	5.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Benzo[k]fluoranthene	89		9.9	4.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Chrysene	340		11	5.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Dibenz(a,h)anthracene	34		25	5.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Fluoranthene	300		25	4.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Fluorene	25	U	25	5.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Indeno[1,2,3-cd]pyrene	61		25	8.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
1-Methylnaphthalene	190		49	5.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
2-Methylnaphthalene	340		49	8.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Naphthalene	280		49	5.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Phenanthrene	490		9.9	4.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
Pyrene	240		25	4.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:01	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		47			30 - 130		12/19/12 14:30	12/22/12 12:01	1

## Client Sample ID: CV0256B-CS

Date Collected: 12/13/12 09:43  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-4

Matrix: Solid  
 Percent Solids: 74.0

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
<b>Acenaphthylene</b>	<b>15</b>	<b>J</b>	54	6.7	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Anthracene	22		11	5.7	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Benzo[a]anthracene	98		11	5.3	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Benzo[a]pyrene	68		14	7.0	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Benzo[b]fluoranthene	140		16	8.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Benzo[g,h,i]perylene	56		27	5.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Benzo[k]fluoranthene	43		11	4.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Chrysene	180		12	6.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Dibenz(a,h)anthracene	34		27	5.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Fluoranthene	130		27	5.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Fluorene	27	U	27	5.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Indeno[1,2,3-cd]pyrene	42		27	9.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
1-Methylnaphthalene	97		54	5.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
2-Methylnaphthalene	110		54	9.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Naphthalene	110		54	5.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Phenanthrene	180		11	5.3	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
Pyrene	110		27	5.0	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:16	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		44			30 - 130		12/19/12 14:30	12/22/12 12:16	1

TestAmerica Savannah

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0256C-CS

Date Collected: 12/13/12 09:45  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-5

Matrix: Solid  
 Percent Solids: 78.1

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	510	U/J	510	100	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Acenaphthylene	200	U/J	200	26	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Anthracene	38 J		43	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Benzo[a]anthracene	170		41	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Benzo[a]pyrene	84 J		53	27	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Benzo[b]fluoranthene	110		62	31	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Benzo[g,h,i]perylene	84 J		100	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Benzo[k]fluoranthene	79		41	18	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Chrysene	240 J		46	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Dibenz(a,h)anthracene	41 J		100	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Fluoranthene	180		100	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Fluorene	100 U		100	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Indeno[1,2,3-cd]pyrene	87 J		100	36	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
1-Methylnaphthalene	170 J		200	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
2-Methylnaphthalene	190 J		200	36	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Naphthalene	180 J		200	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Phenanthrene	320 J		41	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
Pyrene	150 J		100	19	ug/Kg	⊗	12/19/12 14:30	12/22/12 12:31	4
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	41						12/19/12 14:30	12/22/12 12:31	4

## Client Sample ID: CV0256D-CS

Date Collected: 12/13/12 09:48  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-6

Matrix: Solid  
 Percent Solids: 77.5

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	500 U		500	100	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Acenaphthylene	200 U		200	25	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Anthracene	34 J		42	21	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Benzo[a]anthracene	200		40	20	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Benzo[a]pyrene	100		52	26	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Benzo[b]fluoranthene	250		61	31	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Benzo[g,h,i]perylene	110		100	22	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Benzo[k]fluoranthene	65		40	18	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Chrysene	250		45	23	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Dibenz(a,h)anthracene	43 J		100	21	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Fluoranthene	260		100	20	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Fluorene	25 J		100	21	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Indeno[1,2,3-cd]pyrene	62 J		100	36	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
1-Methylnaphthalene	160 J		200	22	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
2-Methylnaphthalene	270		200	36	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Naphthalene	200		200	22	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Phenanthrene	430 B		40	20	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
Pyrene	240		100	19	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:11	4
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	68						12/26/12 10:04	12/27/12 14:11	4

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0256E-GS

Date Collected: 12/13/12 09:50  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-7

Matrix: Solid  
 Percent Solids: 76.2

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Acenaphthylene	210	U	210	26	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Anthracene	290		44	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Benzo[a]anthracene	540		42	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Benzo[a]pyrene	210		55	27	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Benzo[b]fluoranthene	670		64	32	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Benzo[g,h,i]perylene	170		100	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Benzo[k]fluoranthene	300		42	19	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Chrysene	1300		47	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Dibenz(a,h)anthracene	140		100	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Fluoranthene	850		100	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Fluorene	100	U	100	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Indeno[1,2,3-cd]pyrene	63	J	100	37	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
1-Methylnaphthalene	820		210	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
2-Methylnaphthalene	1600		210	37	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Naphthalene	1400		210	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Phenanthrene	3400		42	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
Pyrene	780		100	19	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:16	4
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		59			30 - 130		12/19/12 14:30	12/22/12 13:16	4

## Client Sample ID: CV0061B-CS

Date Collected: 12/13/12 09:01  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-8

Matrix: Solid  
 Percent Solids: 74.4

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Acenaphthylene	13	J	54	6.7	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Anthracene	20		11	5.7	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Benzo[a]anthracene	110		11	5.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Benzo[a]pyrene	91		14	7.0	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Benzo[b]fluoranthene	230		16	8.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Benzo[g,h,i]perylene	60		27	5.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Benzo[k]fluoranthene	83		11	4.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Chrysene	130		12	6.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Dibenz(a,h)anthracene	27		27	5.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Fluoranthene	150		27	5.4	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Fluorene	5.9	J	27	5.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Indeno[1,2,3-cd]pyrene	57		27	9.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
1-Methylnaphthalene	35	J	54	5.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
2-Methylnaphthalene	43	J	54	9.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Naphthalene	44	J	54	5.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Phenanthrene	84		11	5.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
Pyrene	100		27	5.0	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:31	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		53			30 - 130		12/19/12 14:30	12/22/12 13:31	1

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511AC-GS

Date Collected: 12/13/12 10:57  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-9

Matrix: Solid  
 Percent Solids: 62.8

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
<b>Acenaphthylene</b>	<b>17</b>	<b>J</b>	62	7.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Anthracene	74		13	6.5	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Benzo[a]anthracene	360		12	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Benzo[a]pyrene	430		16	8.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Benzo[b]fluoranthene	700		19	9.5	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Benzo[g,h,i]perylene	340		31	6.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Benzo[k]fluoranthene	250		12	5.6	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Chrysene	440		14	7.0	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Dibenz(a,h)anthracene	97		31	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Fluoranthene	690		31	6.2	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Fluorene	34		31	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Indeno[1,2,3-cd]pyrene	290		31	11	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
1-Methylnaphthalene	56	J	62	6.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
2-Methylnaphthalene	76		62	11	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Naphthalene	88		62	6.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Phenanthrene	360	B	12	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
Pyrene	600		31	5.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:30	1
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	71			30 - 130			12/26/12 10:04	12/27/12 14:30	1

## Client Sample ID: CV0511FF-CS

Date Collected: 12/13/12 08:50  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-10

Matrix: Solid  
 Percent Solids: 69.9

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	270	J	570	110	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Acenaphthylene	42	J	230	29	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Anthracene	570		48	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Benzo[a]anthracene	4900		46	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Benzo[a]pyrene	3600		59	30	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Benzo[b]fluoranthene	5900		70	35	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Benzo[g,h,i]perylene	1800		110	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Benzo[k]fluoranthene	3000		46	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Chrysene	4100		51	26	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Dibenz(a,h)anthracene	1200		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Fluoranthene	9700		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Fluorene	150		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Indeno[1,2,3-cd]pyrene	1900		110	41	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
1-Methylnaphthalene	28	J	230	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
2-Methylnaphthalene	58	J	230	41	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Naphthalene	61	J	230	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Phenanthrene	2900		46	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
Pyrene	5800		110	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 13:46	4
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	50			30 - 130			12/19/12 14:30	12/22/12 13:46	4

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511GG-CS

Date Collected: 12/13/12 08:33  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-11

Matrix: Solid  
 Percent Solids: 77.5

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	520	U	520	100	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Acenaphthylene	210	U	210	26	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Anthracene	110		43	22	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Benzo[a]anthracene	660		41	20	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Benzo[a]pyrene	420		54	27	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Benzo[b]fluoranthene	860		63	32	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Benzo[g,h,i]perylene	290		100	23	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Benzo[k]fluoranthene	360		41	19	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Chrysene	550		47	23	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Dibenz(a,h)anthracene	140		100	21	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Fluoranthene	1100		100	21	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Fluorene	22	J	100	21	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Indeno[1,2,3-cd]pyrene	260		100	37	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
1-Methylnaphthalene	210	U	210	23	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
2-Methylnaphthalene	210	U	210	37	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Naphthalene	210	U	210	23	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Phenanthrene	470		41	20	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
Pyrene	720		100	19	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:13	4
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		58			30 - 130		12/19/12 14:30	12/21/12 22:13	4

## Client Sample ID: CV0511HH-CS

Date Collected: 12/13/12 08:55  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-12

Matrix: Solid  
 Percent Solids: 71.7

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	560	U	560	110	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Acenaphthylene	220	U	220	28	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Anthracene	200		47	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Benzo[a]anthracene	1200		45	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Benzo[a]pyrene	790		58	29	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Benzo[b]fluoranthene	1500		68	34	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Benzo[g,h,i]perylene	360		110	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Benzo[k]fluoranthene	980		45	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Chrysene	1000		50	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Dibenz(a,h)anthracene	130		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Fluoranthene	2300		110	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Fluorene	79	J	110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Indeno[1,2,3-cd]pyrene	350		110	40	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
1-Methylnaphthalene	48	J	220	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
2-Methylnaphthalene	53	J	220	40	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Naphthalene	80	J	220	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Phenanthrene	1100		45	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
Pyrene	1400		110	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:02	4
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		54			30 - 130		12/19/12 14:30	12/22/12 14:02	4

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511II-CS

Date Collected: 12/13/12 08:55  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-13

Matrix: Solid  
 Percent Solids: 70.1

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	32	J	140	28	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Acenaphthylene	55	U	55	6.9	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Anthracene	56		12	5.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Benzo[a]anthracene	280		11	5.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Benzo[a]pyrene	240		14	7.2	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Benzo[b]fluoranthene	390		17	8.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Benzo[g,h,i]perylene	130		28	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Benzo[k]fluoranthene	130		11	5.0	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Chrysene	280		12	6.2	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Dibenz(a,h)anthracene	39		28	5.7	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Fluoranthene	560		28	5.5	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Fluorene	22	J	28	5.7	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Indeno[1,2,3-cd]pyrene	130		28	9.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
1-Methylnaphthalene	22	J	55	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
2-Methylnaphthalene	26	J	55	9.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Naphthalene	26	J	55	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Phenanthrene	280	B	11	5.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
Pyrene	440		28	5.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 14:48	1
<b>Surrogate</b>									
<i>o-Terphenyl</i>	76			30 - 130					
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/26/12 10:04	12/27/12 14:48	1

## Client Sample ID: CV0511JJ-CS

Date Collected: 12/13/12 09:10  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-14

Matrix: Solid  
 Percent Solids: 63.3

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Acenaphthylene	8.4	J	63	7.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Anthracene	26		13	6.6	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Benzo[a]anthracene	160		13	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Benzo[a]pyrene	170		16	8.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Benzo[b]fluoranthene	240		19	9.6	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Benzo[g,h,i]perylene	120		31	6.9	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Benzo[k]fluoranthene	120		13	5.6	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Chrysene	190		14	7.0	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Dibenz(a,h)anthracene	32		31	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Fluoranthene	320		31	6.3	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Fluorene	13	J	31	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Indeno[1,2,3-cd]pyrene	97		31	11	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
1-Methylnaphthalene	35	J	63	6.9	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
2-Methylnaphthalene	49	J	63	11	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Naphthalene	88		63	6.9	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Phenanthrene	160	B	13	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
Pyrene	250		31	5.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:06	1
<b>Surrogate</b>									
<i>o-Terphenyl</i>	85			30 - 130					
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/26/12 10:04	12/27/12 15:06	1

1 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511KK-CS

Date Collected: 12/13/12 09:15  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-15

Matrix: Solid  
 Percent Solids: 62.3

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	32	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
<b>Acenaphthylene</b>	<b>12</b>	<b>J</b>	64	8.0	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Anthracene	34		14	6.8	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Benzo[a]anthracene	150		13	6.3	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Benzo[a]pyrene	110		17	8.4	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Benzo[b]fluoranthene	180		20	9.8	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Benzo[g,h,i]perylene	68		32	7.1	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Benzo[k]fluoranthene	95		13	5.8	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Chrysene	180		14	7.2	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Dibenz(a,h)anthracene	42		32	6.6	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Fluoranthene	260		32	6.4	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Fluorene	12	J	32	6.6	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Indeno[1,2,3-cd]pyrene	60		32	11	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
1-Methylnaphthalene	38	J	64	7.1	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
2-Methylnaphthalene	48	J	64	11	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Naphthalene	90		64	7.1	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Phenanthrene	200		13	6.3	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
Pyrene	150		32	6.0	ug/Kg	⊗	12/19/12 14:30	12/21/12 22:43	1
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	62			30 - 130			12/19/12 14:30	12/21/12 22:43	1

## Client Sample ID: CV0511LL-CS

Date Collected: 12/13/12 09:20  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-16

Matrix: Solid  
 Percent Solids: 68.7

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	150	U	150	29	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
<b>Acenaphthylene</b>	<b>16</b>	<b>J</b>	58	7.3	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Anthracene	82		12	6.1	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Benzo[a]anthracene	340		12	5.7	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Benzo[a]pyrene	310		15	7.6	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Benzo[b]fluoranthene	450		18	8.9	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Benzo[g,h,i]perylene	210		29	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Benzo[k]fluoranthene	210		12	5.2	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Chrysene	310		13	6.5	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Dibenz(a,h)anthracene	63		29	6.0	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Fluoranthene	610		29	5.8	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Fluorene	28	J	29	6.0	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Indeno[1,2,3-cd]pyrene	170		29	10	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
1-Methylnaphthalene	36	J	58	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
2-Methylnaphthalene	43	J	58	10	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Naphthalene	55	J	58	6.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Phenanthrene	360	B	12	5.7	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
Pyrene	520		29	5.4	ug/Kg	⊗	12/26/12 10:04	12/27/12 15:25	1
<b>Surrogate</b>							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	69			30 - 130			12/26/12 10:04	12/27/12 15:25	1

1 Sample results have been qualified in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35<sup>th</sup> Avenue Removal Site, Birmingham, Alabama.

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511MM-CS

Date Collected: 12/13/12 09:25  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-17

Matrix: Solid  
 Percent Solids: 63.4

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	160	U	160	31	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
<b>Acenaphthylene</b>	<b>17</b>	<b>J</b>	63	7.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Anthracene	64		13	6.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Benzo[a]anthracene	280		13	6.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Benzo[a]pyrene	240		16	8.2	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Benzo[b]fluoranthene	430		19	9.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Benzo[g,h,i]perylene	130		31	6.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Benzo[k]fluoranthene	180		13	5.7	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Chrysene	300		14	7.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Dibenz(a,h)anthracene	55		31	6.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Fluoranthene	480		31	6.3	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Fluorene	21	J	31	6.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Indeno[1,2,3-cd]pyrene	120		31	11	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
1-Methylnaphthalene	57	J	63	6.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
2-Methylnaphthalene	89		63	11	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Naphthalene	110		63	6.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Phenanthrene	250		13	6.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
Pyrene	290		31	5.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:17	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		54			30 - 130		12/19/12 14:30	12/22/12 14:17	1

## Client Sample ID: CV0511NN-CS

Date Collected: 12/13/12 09:30  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-18

Matrix: Solid  
 Percent Solids: 71.2

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	340	J	560	110	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Acenaphthylene	37	J	230	28	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Anthracene	600		47	24	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Benzo[a]anthracene	3000		45	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Benzo[a]pyrene	1900		59	29	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Benzo[b]fluoranthene	3300		69	34	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Benzo[g,h,i]perylene	890		110	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Benzo[k]fluoranthene	1700		45	20	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Chrysene	2700		51	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Dibenz(a,h)anthracene	420		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Fluoranthene	6800		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Fluorene	280		110	23	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Indeno[1,2,3-cd]pyrene	920		110	40	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
1-Methylnaphthalene	59	J	230	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
2-Methylnaphthalene	56	J	230	40	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Naphthalene	69	J	230	25	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Phenanthrene	3500		45	22	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
Pyrene	3600		110	21	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:32	4
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		54			30 - 130		12/19/12 14:30	12/22/12 14:32	4

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511OO-CS

Date Collected: 12/13/12 09:52  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-19

Matrix: Solid  
 Percent Solids: 65.6

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	94	J	150	30	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Acenaphthylene	24	J	61	7.6	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Anthracene	190		13	6.4	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Benzo[a]anthracene	810		12	5.9	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Benzo[a]pyrene	570		16	7.9	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Benzo[b]fluoranthene	940		19	9.3	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Benzo[g,h,i]perylene	240		30	6.7	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Benzo[k]fluoranthene	390		12	5.5	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Chrysene	790		14	6.8	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Dibenz(a,h)anthracene	120		30	6.2	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Fluoranthene	1800		30	6.1	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Fluorene	92		30	6.2	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Indeno[1,2,3-cd]pyrene	180		30	11	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
1-Methylnaphthalene	46	J	61	6.7	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
2-Methylnaphthalene	54	J	61	11	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Naphthalene	84		61	6.7	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Phenanthrene	1100		12	5.9	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
Pyrene	950		30	5.6	ug/Kg	⊗	12/19/12 14:30	12/21/12 23:29	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		68			30 - 130		12/19/12 14:30	12/21/12 23:29	1

## Client Sample ID: CV0511PP-CS

Date Collected: 12/13/12 09:55  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-20

Matrix: Solid  
 Percent Solids: 58.8

### Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	170	U	170	34	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Acenaphthylene	13	J	68	8.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Anthracene	44		14	7.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Benzo[a]anthracene	200		14	6.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Benzo[a]pyrene	150		18	8.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Benzo[b]fluoranthene	250		21	10	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Benzo[g,h,i]perylene	74		34	7.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Benzo[k]fluoranthene	94		14	6.1	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Chrysene	230		15	7.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Dibenz(a,h)anthracene	30	J	34	6.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Fluoranthene	390		34	6.8	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Fluorene	11	J	34	6.9	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Indeno[1,2,3-cd]pyrene	76		34	12	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
1-Methylnaphthalene	35	J	68	7.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
2-Methylnaphthalene	42	J	68	12	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Naphthalene	70		68	7.5	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Phenanthrene	170		14	6.6	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
Pyrene	240		34	6.3	ug/Kg	⊗	12/19/12 14:30	12/22/12 14:47	1
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>		55			30 - 130		12/19/12 14:30	12/22/12 14:47	1

1 Sample results have been qualified in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-1  
 SDG: 68085860-1

## Client Sample ID: CV0511SSS-SW

Date Collected: 12/13/12 15:40  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-62

Matrix: Water

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Acenaphthylene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Anthracene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Benzo[a]anthracene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Benzo[a]pyrene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Benzo[b]fluoranthene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Benzo[g,h,i]perylene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Benzo[k]fluoranthene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Chrysene	0.19	U	0.19	0.042	ug/L		12/19/12 16:15	12/27/12 15:31	1
Dibenz(a,h)anthracene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Fluoranthene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Fluorene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
1-Methylnaphthalene	0.37	U	0.37	0.37	ug/L		12/19/12 16:15	12/27/12 15:31	1
2-Methylnaphthalene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Naphthalene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Phenanthrene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
Pyrene	0.19	U	0.19	0.093	ug/L		12/19/12 16:15	12/27/12 15:31	1
<b>Surrogate</b>		<b>%Recovery</b>		<b>Qualifier</b>		<b>Limits</b>			<b>Dil Fac</b>
<i>o-Terphenyl</i>		56				41 - 130			1
							<b>Prepared</b>	<b>Analyzed</b>	
							12/19/12 16:15	12/27/12 15:31	

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35<sup>th</sup> Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)